



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

### Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

### About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>



3 3433 06273845 9













SIXTEENTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

IN

MICHIGAN FOR THE YEAR 1882.

BY THE

SECRETARY OF STATE,

OF THE

STATE OF MICHIGAN.



BY AUTHORITY.

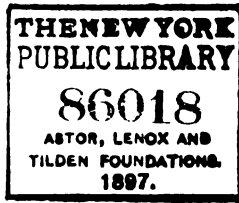
LANSING, MICH.

W. S. GEORGE & CO, STATE PRINTERS AND BINDERS.

1884.

424

E. W. O.



NEW YORK  
PUBLIC LIBRARY  
ASTOR, LENOX AND  
TILDEN FOUNDATIONS

# CONTENTS.

---

	PAGE.
Table of Contents, . . . . .	iii.-v.
Introductory Letter of transmittal by Secretary of State, . . . . .	vii.-viii.
<b>BIRTHS, MARRIAGES, AND DEATHS:</b>	
Births, Marriages, and Deaths in Michigan during the year 1882, . . . . .	1-12
Births, Marriages, and Deaths, and Excess of Births over Deaths for each of the years 1877-1882, . . . . .	2
Statements Concerning Births, Marriages, and Deaths in 1877-1882, . . . . .	2
Births, Marriages, and Deaths, and Excess of Births over Deaths per Quarter, Month, Week, and Day, . . . . .	4
Births, Deaths, and Excess of Births, by years, . . . . .	5
Births, and Marriages, and Deaths in Months of Conceptions of the Births, . . . . .	6
Comparative Natural Increase of Native and Foreign-born Inhabitants in Michigan, . . . . .	7
Population June 1, 1880, and Marriages, Births, Deaths, and Excess of Births over Deaths in 1882, by Counties and Sex, . . . . .	8-11
Births and Deaths, in 1882, Occurring out of Michigan, . . . . .	12
<b>BIRTHS:</b>	
In Michigan during the year 1882, . . . . .	13
Average by Quarter, Month, Week, and Day, as Returned and as Corrected, . . . . .	14
By Quarters, for each of the years 1874-1882, . . . . .	15
By Months, for each of the Years 1874-1882, . . . . .	16, 17
Corrections for Omissions in Enumeration, and Manner of, . . . . .	18-23
Relation between Births and Marriages, . . . . .	24, 25
By Counties, by Sex, by Months, . . . . .	26-33
By Color, by Sex, . . . . .	35
By Counties, the Relation of, the Sexes, the Birth-rate by Sex, and the Number, by Color, by Sex, . . . . .	36-43
By Parent-Nativity, . . . . .	44-53
By Counties, Parent-Nativity, and Sex, . . . . .	46-53
Twins, . . . . .	54-65
Twins, by Parent-Nativity, Color, and Sex, . . . . .	56-57
Twins by Counties, Parent-Nativity, and Sex, . . . . .	58-65
Triplet Children, 1882, . . . . .	66
Still-births by Months, Parent-Nativity, Sex, etc., . . . . .	67-71
Illegitimate Children, by Months, Parent-Nativity, Sex, etc., . . . . .	72-78



	PAGE.
By Counties, the number of Illegitimate and Still-born Children and Twins, . . . . .	78
Counties and Townships in which no Births occurred in 1882, . . . . .	79
Counties and Townships from which no Returns of Births were received for 1882, . . . . .	80
Sex of Children, by Months of Birth, Months of Conception, as related to Deaths and to Illegitimate and Still-born Children, and Twins, by Parent-Nativity, . . . . .	80-88

**MARRIAGES:**

In Michigan during the Year 1882, . . . . .	89
By Quarters of the Years 1874-1882, as Originally Returned, and as Corrected for Addi- tional Returns, . . . . .	90
By Months Equalized to Uniform Length, for each of the Years 1874-1882, . . . . .	94-95
By Months, for each of the Years 1874-1882, . . . . .	92-93
By Counties, by Months, for the Year 1882, . . . . .	96-98
By Color, by Sex, . . . . .	99
By Counties, by Color, . . . . .	100-102
By Nativity, by Sex, . . . . .	103-104
By Age, by Sex, . . . . .	105-106
By Age, by Sex, and Excess of the Sexes, . . . . .	107
By Counties, Nativity, Sex, and Age, . . . . .	108-113
By Counties, by Ages under 21 years, . . . . .	114-116
By Ages in Periods, by Sex, . . . . .	117
Disparity of Ages, . . . . .	118-119
By Nativity for Different Foreign Countries, the United States, etc., . . . . .	124
By Counties, for each of the years 1874-1882, as first Returned, and as Corrected for Addi- tional Returns, and Relation of Marriages in 1882 to Population . . . . .	120-123

**DEATHS:**

In Michigan during the Year 1882, . . . . .	125
By Quarters, for each of the Years 1874-1882, . . . . .	127
By Months, for each of the Years 1875-1882, . . . . .	128
By Months and Sex for 1882, . . . . .	129-130
Corrections for Omissions in the Enumeration, . . . . .	131-134
By Periods of Age, by Sex, . . . . .	135
By Age, by Sex, and Excess of Either Sex, . . . . .	136-137
By Months, by Periods of Age, . . . . .	139
By Periods of Age, by Sex, by Months, . . . . .	140-141
By Age, by Sex, by Months, . . . . .	142-151
Infant Mortality, . . . . .	151-157
Diagramatic Table of Deaths of Children under One Year of Age, . . . . .	152-153
Diagramatic Table of Months of Births and Deaths of Children who Died under one Year of Age, 1881-1882, . . . . .	156
Decedents Aged One Hundred Years and Over, . . . . .	158
Counties and Townships from which no Returns of Deaths were received for 1882, . . . . .	159
Counties and Townships in which it is Reported that no Deaths Occurred in 1882, . . . . .	160
By Counties, Sex, Months, and Periods of Age, . . . . .	161-172
By Color, Proportion of the Sexes, . . . . .	173
By Color, by Counties, by Sex, . . . . .	174-176
Nativity and Parent-Nativity of Decedents, . . . . .	177
By Counties, by Nativity, by Sex, . . . . .	178-180

**CAUSES OF DEATH:**

Number, by Classes, for each of the Years 1874-1882, . . . . .	182
Number by Classes, by Months, for 1882, . . . . .	181

# CONTENTS.

v

	PAGE.
Seven Groups of Causes for each of the Years 1875-1882, . . . . .	183
Geographical Divisions of the State, . . . . .	184
By Divisions of the State, the Per Cent of Deaths from each Class of Causes, . . . .	185
By Counties, by Causes of Death, Classified, . . . . .	186-215
Specified Causes, by Sex, Months, and Periods of Age, . . . . .	216-258
By Casualties, Specified, . . . . .	259
Suicide, Details of, Remarks and Exhibit, . . . . .	259-262
Principal Causes of Death, Specified, and Details of Special Study of each, . . . . .	263-264, 277-305
Whooping-cough, . . . . .	266, 269
Certain Meteorological Conditions, . . . . .	270-276
All Causes of Death, and Meteorological Conditions, . . . . .	277
Specified Causes of Death, and the Coincident Meteorological Conditions, . . . . .	278-305
Croup and Diphtheria, and Coincident Atmospheric Conditions, . . . . .	278-285
Deaths from Diphtheria, by Counties, for 1877-1882, . . . . .	283-285
Cerebro-spinal Meningitis, and Meteorology, Coincident with, . . . . .	285-286
Congestive Chills and Intermittent Fever, and Coincident Meteorological Conditions, . . . .	288-289
Typhoid Fever and Coincident Meteorological Conditions, . . . . .	290
Diarrhea and Coincident Meteorological Conditions, . . . . .	292
Diarrhea and Dysentery, by Geographical Divisions, . . . . .	291
Rheumatism and Coincident Meteorological Conditions, . . . . .	294
Scarlet Fever and Coincident Meteorological Conditions, . . . . .	295
Consumption, . . . . .	296-301, 306-332
Pneumonia, and Coincident Meteorological Conditions, . . . . .	301-305
Pneumonia, by Months, for 1873-1882, . . . . .	302
Consumption and Pneumonia Correlated, . . . . .	306-307
Consumption, Pneumonia, Typhoid Fever, and Intermittent Fever, by Geographical Divisions, and by Counties, . . . . .	308-312
Old Age, Decedents Aged 70 years and over, and under 5 years, by Geographical Divisions, and by Counties, . . . . .	313-317
Occupations of Decedents from Consumption, . . . . .	318-332
Average Age of Decedents and Inhabitants, . . . . .	333-334
Occupation of Decedents aged 20 years and over, . . . . .	335-342
Alphabetical Index, . . . . .	343-351





MICHIGAN,  
DEPARTMENT OF STATE, }  
OFFICE OF THE SECRETARY,  
Lansing, Nov., 1884. }

HON. JOSIAH W. BEGOLE, *Governor of Michigan:*

SIR,—In compliance with the requirements of the laws of this State, I have the honor to submit herewith the Sixteenth Annual Report on Births, Marriages, and Deaths, returned for the year ending December 31, 1882.

The tables, exhibits, and diagrams in the present Report are similar to those of recent years. Some new features are introduced which it is thought will add to their interest and value. Special care has been taken in their preparation to secure the greatest attainable accuracy, which will afford gratification to those interested in this important subject. The necessity of thoroughness in our system of registration can hardly be overestimated. Any negligence or error in the original returns, made annually to this office, is carefully noted and correction secured by correspondence with the county clerks. The principal difficulties reported by the county clerks, relate to the delinquencies of clergymen in regard to making returns of marriages, and sometimes to the neglect of supervisors to comply with the law concerning the enumeration of births and deaths. Such cases are to be expected occasionally and they require correspondence and a rigid enforcement of the law. A copy of the laws and instructions concerning the solemnization of marriages, and the record, return, and compilation of births, marriages, and deaths, with such suggestions as seem necessary, has been prepared and is kept for distribution in this office. It will be immediately forwarded to those making application for the same.

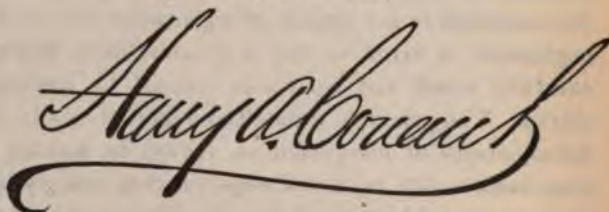
It seems proper to state here that the present report was prepared and printed as soon as possible. Much of the delay is occasioned by the defect in the law itself, which provides that all information concerning births and deaths shall be obtained by the supervisors between the tenth day of April and the first day of June of the year succeeding that in which the events occurred. The returns are then forwarded to the clerks of the several counties and copied into record books for that purpose. The law then requires the county clerks to make certified copies of the records in their offices, and transmit the same to the Secretary of State by the first day of September. Although the law provides that the returns of births, marriages, and deaths shall be at this office on or before the first day of September, they are never all

received before the last of October, and sometimes not before the second or third week in December. After the returns have been received it requires some time and labor to secure the correction of errors by correspondence. No one who is not conversant with statistical work has any idea of the labor necessary in the compilation of these tables, and after they are fully prepared considerable time is indispensable to make the accompanying deductions and observations. This explanation is deemed advisable in order that the seeming delay in publication may be better understood.

The natural increase of population in Michigan, or excess of births over deaths, during the year 1882, was 20,601, an increase of 5,090 over that for the year 1881. The number of births returned in this State in 1882 was 37,026, the number of marriages solemnized was 16,178, and the number of deaths returned was 16,425.

The tables in the present Report embrace nearly the same subjects as those of previous years, and are formed after the plans heretofore adopted as best calculated to offer a reliable basis for satisfactory study of the subjects here presented. Some of the tables, however, which have been published in previous Reports were omitted in the present volume.

Respectfully submitted,

A large, elegant handwritten signature in cursive script, reading "Amy A. Brown". The signature is written in dark ink and features a prominent, sweeping flourish at the end.

*Secretary of State.*



# BIRTHS, MARRIAGES, AND DEATHS,

## IN MICHIGAN,

### DURING THE YEAR 1882.

---

The facts gathered by the supervisors and assessors in 1882, concerning the births, marriages, and deaths which occurred in Michigan during that year, are presented to the public in this volume. This is the sixteenth annual Report of the Secretary of State relating to the subject of the Vital Statistics of Michigan.

It is our purpose to show, in the following tables and exhibits with their accompanying deductions and observations, in what essentials the statistics of 1882 correspond with those of former years, and also where they are at variance. It may be remarked that the statistics, in general, are satisfactory and present some encouraging features as compared with those of the previous years. While there are no very great contrasts to note, yet, in several directions, there are numerous improvements.

Exhibit A, on page 2, shows that during the year 1882, there were returned to the State Department 37,026 births, 16,178 marriages, and 16,425 deaths, the aggregate of this registry being 69,629, or 795 more than the total for 1881. It also shows the number of births, marriages, and deaths for each of the years 1877, 1878, 1879, 1880, and 1881, with the excess of births over deaths for each of those years. As compared with the year 1881, we find that the number of reported births is more by 2,277; the number of recorded marriages is more by 1,331; and the number of registered deaths is less by 2,813. The natural increase of population, or excess of births over deaths, is 20,601, a number more by 5,090 than the natural increase in 1881.

Making comparisons with other years, we find that the number of births and marriages as returned for the year 1882, is considerably in excess of those reported for previous years, while the number of deaths is less than in 1881, although more than for other years. The natural increase of population for the year 1882, is more than for any previous year with the exception of the years 1876 and 1878.

## VITAL STATISTICS OF MICHIGAN, 1882.

EXHIBIT A.—*Births, Marriages, and Deaths Returned as having occurred in Michigan during each of the Years 1877 to 1882, inclusive, including those in unknown month, as Returned, and as Corrected for Omissions in the Enumeration.*

	1877.	1878.	1879.	1880.	1881.	1882.
As Returned.	Marriages .....	11,344	12,929	13,816	14,660	14,847
	Births .....	33,305	35,162	34,123	35,323	34,749
	Deaths .....	12,919	12,766	14,407	16,102	19,238
	Excess of births over deaths.....	20,476	22,396	19,715	19,221	15,511
As Corrected for Omissions.	Births .....	50,203	52,145	50,100	50,643	49,800
	Deaths .....	18,341	18,866	20,583	26,256	27,387
	Excess of births over deaths.....	31,862	33,279	29,517	24,387	22,413

a Corrected for additional returns up to Dec. 17, 1883.

EXHIBIT B.—*Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1877-1882, inclusive.*

	1877. <sup>a</sup>	1878. <sup>a</sup>	1879. <sup>a</sup>	1880. <sup>c</sup>	1881. <sup>c</sup>	1882.
Inhabitants represented by returns of marriages to one marriage <sup>b</sup> .....	111.90	103.57	95.96	110.14	104.41	101.12
In population represented by marriages, males to one marriage.....	58.48	54.12	50.15	58.08	55.01	53.27
In population represented by marriages, females to one marriage.....	53.43	49.52	45.81	52.12	49.41	47.85
Inhabitants represented by births to each child returned.....	30.82	37.78	38.76	46.07	46.90	44.11
Inhabitants, males to each male child returned....	40.83	38.09	38.90	46.61	47.82	44.85
Inhabitants, females to each female child returned...	39.42	37.60	38.71	45.65	46.08	43.41
Inhabitants represented by deaths to one death...	102.28	103.32	91.49	100.86	84.31	99.34
Inhabitants, males to one death of male.....	101.08	103.83	91.53	98.86	83.18	98.68
Inhabitants, females to one death of female.....	104.51	103.64	91.95	103.84	86.23	100.85
Deaths, males to 100 females.....	113.03	109.04	100.84	116.67	115.19	113.69
Births, males to 100 females.....	106.94	108.02	108.83	108.79	107.13	107.83
Total population of State, males to 100 females....	109.47	109.47	109.47	111.33	111.33	111.33
Births to one death.....	2.58	2.75	2.37	2.19	1.81	2.25
Births, males to one death of male.....	2.52	2.75	2.36	2.13	1.75	2.20
Births, females to one death of female.....	2.67	2.77	2.38	2.28	1.88	2.32
Children born of which the sex was unknown or not stated.....	59.00	67.00	48.00	62.00	61.00	60.00
Decedents of which the sex was unknown or not stated.....	52.00	52.00	37.00	47.00	65.00	48.00
Natural daily increase of population as per births and deaths returned.....	56.10	61.35	54.01	52.52	42.49	56.44
Natural daily increase of population where returns of births and deaths are corrected for omissions in the enumeration.....	87.29	91.17	86.95	66.63	61.41	61.66

<sup>a</sup> In computing statements for this column, the inhabitants in 1874 were used.

<sup>b</sup> Marriages corrected for additional returns up to December 17, 1883.

<sup>c</sup> In computing statements for this column, the inhabitants June 1, 1880, were used.

In Exhibit B may be studied many important relations between births, marriages, deaths, and inhabitants during each of the years 1877-1882. In the computations for the years 1877, 1878, and 1879, the population in 1874 was used, and in the statements for the years 1880, 1881, and 1882, the population of the State according to the U. S. Census of 1880, was used. In the intervals between the census enumerations we are compelled to make our calculations upon the last census returns, which necessarily involves a certain amount of error. The probable increase in the population must, therefore, be considered when the estimates are compared with those of previous years. It is evident that, from year to year, the population does not pursue a uniform rate of increase, but until there is a better means of determining the fluctuation, the equal annual rate of increase is the most reliable method.

The average annual rate of increase in the population during the period from 1870 to 1880 was 3.291 per cent. Using this as the rate of increase for the present period, the estimated population of Michigan for the year 1882 would be 1,746,453; an increase of 109,516 over the actual population in 1880.

Table I. contains data concerning the number of births, marriages, and deaths in Michigan for certain specified periods of time during the year 1882. Here may be seen the average number per quarter, per month, per week, and per day, and also the natural increase of population, or excess of births over deaths, for each of those periods of time. According to the returns, there were 101 births, 44 marriages, and 45 deaths per day in this State in 1882. When the returns of births and deaths are corrected for omissions in the enumeration, there were 136 births, and 74 deaths per day.

From Exhibit B it may be seen that one child was born to every 44 persons of the population, that one marriage was solemnized to every 101 persons, and that one death occurred to every 99 persons. The rates of births, marriages, and deaths to 1,000 of population were as follows:

Births.....	22.67	to 1,000 of population
Marriages.....	9.89	“ “
Deaths.....	10.07	“ “

It should be borne in mind that the above figures are obtained from the population of the State in 1880.

The excess of the birth-rate over the death-rate is 12.6 per thousand, an increase of 3.22 over that for 1881.

With such an increased birth-rate, and such a diminished death-rate, the year was favorable to public health.



TABLE I.—*The number of Marriages, Births, Deaths, and Excess of Births over Deaths in the State of Michigan during the Year 1882, and the Average Number and Excess during Specified Periods of Time within the Year as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.*

PERIODS OF TIME,—1882.		Marriages, 1882.	Births, 1882.	Deaths, 1882.	Excess of Births over Deaths.
As Returned.	Year 1882 <sup>a</sup> .....	16,178.00	37,026.00	16,425.00	20,601.00
	Quarter.....	4,044.50	9,256.50	4,106.25	5,150.25
	Month.....	1,348.17	3,085.50	1,368.75	1,716.75
	Week.....	311.12	712.04	315.87	396.17
	Day.....	44.32	101.44	45.00	56.44
Births and Deaths as Corrected. <sup>b</sup>	Year, 1882 <sup>b</sup> .....	.....	40,813.00	27,300.00	22,507.00
	Quarter.....	.....	12,453.25	6,826.50	5,626.75
	Month.....	.....	4,151.08	2,275.50	1,875.58
	Week.....	.....	937.94	525.12	432.82
	Day.....	.....	136.47	74.81	61.66

<sup>a</sup> Unknown month included.

<sup>b</sup> Corrected as if enumerated in months of occurrence.

The design of Exhibit 1 is to show the number of births, and deaths registered in Michigan; also the natural increase of population, or excess of births over deaths, by months, during the years 1877-1882. It also shows in the last line the monthly averages of excess for the nine years 1874-1882. It will be observed that the average excess for the nine years is less by 837 than the excess for the year 1882. Thus it is seen that the year 1882 is better than an average one as regards the natural increase of population. The month of December has the largest average excess of births over deaths, and the month of February the smallest. In 1882, the month of February also has the least excess, while the month of August shows the largest excess.

Some of the relations between births, marriages, and deaths may be studied in Exhibit 2, on page 6. The births, as equalized and as corrected for omissions, are shown, by months, for the year 1882, and the marriages and the deaths, as equalized and as corrected for omissions, are shown for the months in which the births in 1882 were probably conceived—nine months prior to birth. The plus and minus signs indicate, respectively, that the number under it is greater or less, as the case may be, than the monthly average for that line, as shown in the last column.

EXHIBIT 1.—By Months, the Births, Deaths, and Excess of Births over Deaths, according to the Returns, in Michigan during each of the Years 1877 to 1882, inclusive.

	Total.	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1877.													
Births.....	33,324	2,212	2,246	2,690	2,655	2,683	2,657	2,899	3,227	3,048	3,015	2,847	3,145
Deaths.....	12,863	766	843	960	978	976	875	1,040	1,559	1,400	1,221	1,060	1,155
Excess of births.....	20,461	1,446	1,403	1,700	1,677	1,707	1,782	1,859	1,668	1,648	1,794	1,787	1,990
1878.													
Births.....	35,130	2,301	2,414	2,836	2,937	2,805	2,797	2,835	3,205	3,260	3,265	3,061	3,423
Deaths.....	12,742	730	789	930	1,029	923	870	1,017	1,371	1,343	1,190	1,181	1,369
Excess of births.....	22,388	1,471	1,625	1,906	1,908	1,882	1,927	1,818	1,924	1,917	2,076	1,880	2,054
1879.													
Births.....	34,002	2,429	2,331	2,758	2,766	2,842	2,626	3,018	3,108	3,149	3,036	2,766	3,253
Deaths.....	14,366	903	992	1,114	1,174	1,063	902	1,183	1,537	1,403	1,286	1,268	1,521
Excess of births.....	19,726	1,526	1,339	1,644	1,592	1,779	1,724	1,835	1,661	1,746	1,750	1,498	1,732
1880.													
Births.....	35,287	2,355	2,513	2,850	2,824	2,880	2,772	3,011	3,285	3,278	3,173	3,008	3,278
Deaths.....	16,069	890	1,002	1,149	1,289	1,166	1,036	1,327	1,780	1,676	1,471	1,486	1,617
Excess of births.....	19,228	1,465	1,511	1,701	1,535	1,714	1,736	1,684	1,505	1,602	1,702	1,522	1,661
1881.													
Births.....	34,719	2,363	2,432	2,835	2,805	2,887	2,712	3,027	3,313	3,204	3,078	2,854	3,179
Deaths.....	19,172	1,065	1,078	1,315	1,427	1,457	1,276	1,701	2,246	2,301	1,941	1,617	1,748
Excess of births.....	15,547	1,298	1,354	1,520	1,378	1,430	1,436	1,326	1,067	903	1,137	1,237	1,431
1882.													
Births.....	36,985	2,456	2,536	3,004	3,059	3,031	2,783	3,100	3,521	3,444	3,379	3,215	3,477
Deaths.....	16,347	978	1,171	1,372	1,311	1,480	1,264	1,584	1,463	1,545	1,498	1,421	1,570
Excess of births.....	20,638	1,508	1,365	1,632	1,748	1,551	1,469	1,516	2,058	1,899	1,881	1,794	1,907
Monthly averages of excess for 1874 to 1882, inclusive	19,801	1,441	1,406	1,643	1,622	1,684	1,708	1,745	1,676	1,636	1,722	1,696	1,822

\* Unknown month excluded.



It may be interesting to note that the larger number of births in the months of August and September of the year 1882 seems to be coincident with the larger number of marriages solemnized in the months of November and December of the year 1881.

Using births as returned and equalized by months as the data, propositions may be made as follows:

(1.) *More* than the average number of conceptions occurred in months in which *more* than the average number of marriages were solemnized, and *less* than the average number in months when *less* than the average number of marriages were solemnized.

(2.) *Less* than the average number of conceptions occurred in months in which *more* than the average number of deaths occurred, and more than an average number of conceptions in months in which *less* than the average number of deaths occurred.

To each of the above propositions there are six exceptions shown in Exhibit 2.

**EXHIBIT 2.—Births Returned as having occurred in Michigan by Months, during the Year 1882, and Marriages and Deaths during Months of Conceptions of the Births,—all Months Equalized to Uniform length of 30.44 days.**

	Total. <sup>a</sup>	MONTHS,—1882.												Av. Month.
		Jan.	Feb.	Mar.	Apr.	May.	une.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Births, 1882, equalized to months of uniform length.....	36,991	2,441	2,757	2,950	3,103	2,976	2,773	3,044	3,457	3,495	3,318	3,262	3,415	3,083
Births, 1882, corrected for omissions in enumerating, and equalized to months of uniform length.	49,814	3,768	4,162	4,352	4,475	4,189	3,800	4,077	4,514	4,443	4,106	3,926	3,993	4,151
		MONTHS,—1881										1882.		Av. Month.
		Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Marriages, <sup>b</sup> equalized to months of uniform length.....	15,807	1,159	1,167	1,142	1,254	1,068	1,423	1,623	1,678	1,661	1,218	1,234	1,180	1,317
Deaths, equalized to months of uniform length.....	19,228	1,448	1,431	1,295	1,670	2,205	2,335	1,906	1,641	1,166	961	1,273	1,347	1,662
Deaths, corrected for omissions in enumerating, and equalized to months of uniform length.	28,624	2,258	2,169	1,908	2,389	3,060	3,138	2,190	2,065	2,087	1,966	2,522	2,582	2,385
Deaths, corrected and equalized, equalized to months of uniform length.....	29,268	2,329	2,230	1,934	2,439	3,114	3,183	2,507	2,079	2,193	2,048	2,620	2,672	2,439

<sup>a</sup> Excluding unknown month.

<sup>b</sup> Corrected for additional returns up to Dec. 17, 1881.

The natural increase of the population of Michigan, or the excess of births over deaths by nativity, may be seen in Exhibit D. The statistics here show that the birth-rate is much larger and the death-rate much less among the foreign than among the native-born population of this State. Taking the average for the past ten years, the natural increase was about twice as great among the foreign-born as among the native-born. This is largely due to the fact that the foreign-born are nearly all at the reproductive middle ages, and hence the death-rate is small compared with that of children and those of old age.

**EXHIBIT D.**—*Grouping the Evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and of Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths, according to the Returns, the Evidence Exhibited Covering the Years 1875 to 1882, inclusive.*

BIRTHS, DEATHS, AND EXCESS OF BIRTHS OVER DEATHS.	1875.			1876.			1877.			1878.		
	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.
Births by parent nativity.....	a 31,958	14,226	11,120	a 34,235	15,551	11,901	a 33,395	15,370	11,557	a 35,162	16,323	11,992
Deaths, by nativ- ity.....	b 11,990	c 9,573	d 2,106	b 12,576	c 10,147	d 2,078	b 12,919	c 10,305	d 2,251	b 12,766	c 10,183	d 2,237
Excess of births over deaths...	19,968	4,653	9,014	21,659	5,404	9,823	20,476	4,965	9,306	22,396	6,140	9,755

BIRTHS, DEATHS, AND EXCESS OF BIRTHS OVER DEATHS.	1879.			1880.			1881.			1882.		
	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.
Births, by parent nativity.....	a 34,122	15,864	11,369	a 35,323	16,274	11,982	a 34,749	15,907	11,560	a 37,026	16,169	13,172
Deaths, by nativ- ity.....	b 14,407	c 11,495	d 2,458	b 16,102	c 12,572	d 2,962	b 19,238	c 15,402	d 3,407	b 16,425	c 12,848	d 3,144
Excess of births over deaths...	19,715	4,369	8,911	19,221	3,702	9,020	15,511	505	8,153	20,601	3,321	10,029

\* Includes children of mixed parentage, and those where the nativity of one or both parents was unknown.

b Includes deaths of persons of unknown nativity.

c Includes all deaths of persons born in the United States, whether born of native or foreign-born parents.

d Includes only persons who were born in foreign countries.

TABLE II.—*Exhibiting, by Sex, the Population in 1880, the Number of Marriages, Births and Deaths, and the Excess of Births over Deaths, in Michigan during the Year 1882, according to the Returns.*

STATE AND COUNTIES.	POPULATION, 1880.			Marriages, 1882.	BIRTHS, 1882.			DEATHS, 1882.			EXCESS OF BIRTHS OVER DEATHS.					
	Total.	Sex.			Total.	Sex.		Total.	Sex.		Total.	Sex.				
		Males.	Females.			Males.	Fe- males.		Un- known.	Males.		Fe- males.	Un- known.			
														Un- known.		
STATE.....	1,630,937	862,355	774,582	16,178	37,028	19,179	17,787	60	16,425	8,713	7,664	48	20,601	10,466	10,123	12
Alcona.....	3,107	1,945	1,162	22	17	10	7	.....	9	4	5	.....	8	6	2	.....
Allegan.....	37,815	19,732	18,083	397	777	365	410	2	382	186	195	1	395	179	215	1
Alpena.....	8,789	5,161	3,628	113	352	169	182	1	87	47	39	1	265	122	143	.....
Antrim.....	5,237	2,867	2,370	63	146	76	70	.....	78	43	34	1	68	33	36	-1
Baraga.....	1,804	1,036	768	12	63	30	33	.....	41	23	18	.....	22	7	15	.....
Barry.....	25,317	13,284	12,033	199	430	215	215	.....	181	98	83	.....	240	117	132	.....
Bay.....	38,081	21,068	16,983	338	1,510	818	692	.....	503	278	225	.....	1,007	540	467	.....
Benzie.....	3,433	1,862	1,571	31	108	49	54	.....	54	37	17	.....	49	12	37	.....
Berrien.....	36,785	18,805	17,980	546	664	362	297	5	333	182	145	6	331	180	152	-1
Branch.....	27,941	14,240	13,701	321	400	217	183	.....	207	106	101	.....	183	111	82	.....
Calhoun.....	38,452	19,599	18,853	341	571	309	262	.....	264	128	135	1	307	181	127	-1
Cass.....	22,069	11,350	10,659	189	378	182	196	.....	163	87	76	.....	215	95	120	.....
Charlevoix.....	5,115	2,743	2,372	72	187	104	80	3	94	42	51	1	93	62	20	2
Cheboygan.....	6,524	3,760	2,764	50	252	116	116	.....	78	42	36	.....	134	74	80	.....
Chippewa.....	5,248	2,906	2,342	49	126	63	63	.....	80	47	33	.....	46	16	30	.....
Clare.....	4,187	2,793	1,394	50	101	56	42	3	41	20	20	1	60	36	22	2
Clinton.....	28,100	14,657	13,443	201	443	234	219	.....	191	91	99	1	292	138	150	-1
Crawford.....	1,129	683	476	14	43	23	19	1	15	11	4	.....	28	12	15	1

# BIRTHS, MARRIAGES, AND DEATHS.

9

Dalla.....	0,812	4,172	3,040	96	141	64	77	.....	61	26	25	.....	100	38	52	.....
Eaton.....	31,925	16,072	15,153	246	476	256	219	1	202	89	112	1	274	167	107	.....
Emmet.....	6,639	3,544	3,005	78	142	74	68	.....	95	41	54	.....	47	33	14	.....
Genesee.....	30,220	20,042	19,178	346	668	347	321	.....	341	175	166	.....	327	172	165	.....
St. Glawin.....	1,127	749	378	6	17	8	8	1	6	5	1	.....	11	3	7	1
Grand Traverse.....	8,422	4,608	3,814	88	107	51	56	.....	44	21	23	.....	63	30	33	1
Gratiot.....	21,036	11,687	10,249	213	483	244	239	.....	166	90	76	.....	317	154	163	.....
Hillsdale.....	32,723	16,544	16,179	418	469	246	223	.....	236	100	127	.....	233	137	96	.....
Houghton.....	22,473	12,242	10,231	218	868	459	389	.....	280	143	107	.....	698	316	292	.....
Huron.....	20,089	10,714	9,373	114	681	362	319	.....	160	90	60	.....	531	272	259	.....
Ingham.....	33,676	17,399	16,277	313	565	280	296	.....	249	127	122	.....	316	142	174	.....
Ionia.....	33,872	17,974	15,898	275	545	316	229	.....	290	162	128	.....	265	154	101	.....
Iosco.....	6,873	4,097	2,776	71	191	100	82	.....	55	33	22	.....	136	76	60	.....
Isabella.....	12,159	6,602	5,557	96	335	169	161	2	135	65	70	.....	200	104	94	2
Isle Royal.....	65	31	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jackson.....	42,031	21,833	20,198	364	742	370	370	2	356	200	155	1	386	170	215	1
Kalamazoo.....	34,342	17,343	16,999	297	550	253	296	1	338	175	162	1	212	78	134	.....
Kalkaska.....	2,937	1,617	1,320	32	77	39	38	.....	46	25	21	.....	31	14	17	.....
Kent.....	73,253	38,014	35,239	922	1,620	853	766	1	809	434	374	1	811	419	392	.....
Keweenaw.....	4,270	2,396	1,874	28	289	145	143	1	101	62	39	.....	188	83	104	1
Lake.....	3,223	1,941	1,292	37	160	53	47	.....	37	18	19	.....	63	35	28	.....
Lapeer.....	30,138	15,827	14,311	227	619	321	297	1	245	134	110	1	374	187	187	.....
Leelanaw.....	6,253	3,388	2,865	43	165	84	71	.....	39	26	13	.....	116	58	58	.....
Lenawee.....	48,343	24,281	24,062	504	652	324	328	.....	401	203	196	.....	251	121	130	.....
Livingston.....	22,251	11,620	10,631	175	347	180	165	2	178	94	83	1	169	86	82	1
Mackinac.....	2,902	1,689	1,213	25	19	13	6	.....	18	9	9	.....	1	4	-3	.....

\* The figures with the minus sign placed before them indicate the excess of deaths over births.

TABLE II.—CONTINUED.

COUNTIES.	POPULATION, 1880.			Marriages, 1882.	BIRTHS, 1882.			DEATHS, 1882.			EXCESS OF BIRTHS OVER DEATHS.				
	Total.	Sex.			Total.	Sex.		Total.	Sex.		Total.	Sex.			
		Males.	Females.			Males.	Fe- males.		Un- known.	Males.		Fe- males.	Un- known.		
Macomb .....	31,027	16,137	15,470	248	665	320	343	297	122	145	308	198	200	2	1
Manistee .....	12,332	6,969	5,563	196	542	284	257	1	219	123	323	161	162	1	1
Manitou .....	1,334	718	616	7	28	15	13	.....	11	8	17	7	10	.....	.....
Marquette .....	23,394	14,760	10,634	315	1,014	515	496	3	419	230	565	276	319	3	3
Mason .....	10,065	5,630	4,406	111	202	96	104	2	80	38	122	58	63	1	1
Mecosta .....	13,973	7,623	6,347	192	405	218	187	.....	193	119	212	99	113	.....	.....
Menominee .....	11,987	8,000	3,987	180	254	122	129	3	93	45	161	77	82	2	2
Midland .....	6,893	3,780	3,113	55	135	64	71	.....	87	41	48	23	26	1	1
Missaukee .....	1,533	942	611	15	62	27	32	3	32	18	30	9	21	.....	.....
Monroe .....	33,624	17,250	16,374	349	776	424	352	.....	302	152	474	272	202	.....	.....
Montcalm .....	33,148	18,321	14,827	346	632	324	307	1	278	154	354	170	185	2	1
Montmorency .....	.....	.....	.....	3	13	9	4	.....	2	2	11	7	4	.....	.....
Muskegon .....	26,386	14,784	11,802	370	888	444	443	1	339	182	549	263	287	1	1
Newaygo .....	14,688	8,376	6,312	138	288	145	143	.....	131	65	157	80	77	.....	.....
Oakland .....	41,537	21,327	20,210	309	570	292	275	3	341	174	529	118	109	1	1
Oceana .....	11,689	6,444	5,255	106	283	137	146	.....	137	65	146	72	75	1	1
Ogemaw .....	1,914	1,168	746	13	50	23	27	.....	32	17	18	6	12	.....	.....
Ontonagon .....	2,565	1,335	1,230	17	76	46	30	.....	36	21	40	25	15	.....	.....
Oscoda .....	10,777	6,015	4,762	145	311	170	141	.....	107	53	204	117	87	.....	.....
Oscoda .....	467	291	176	6	14	6	8	.....	7	3	7	3	4	.....	.....
Otsego .....	1,974	1,137	837	25	44	23	21	.....	17	13	27	10	17	.....	.....

# BIRTHS, MARRIAGES, AND DEATHS.

11

	33,126	17,472	15,654	373	888	449	433	0	307	205	108	4	521	244	275	2
Ottawa.....	3,113	1,701	1,412	31	143	84	59	.....	38	20	18	.....	105	64	41	.....
Presque Isle.....	1,459	1,096	853	8	26	17	9	.....	9	6	3	.....	17	11	6	.....
Roscommon.....	59,085	31,903	27,893	604	1,613	855	737	1	848	477	365	5	765	378	381	-4
Saginaw.....	26,341	14,023	12,318	201	740	400	340	.....	183	113	80	.....	547	287	260	.....
Sanilac.....	1,575	1,087	478	10	44	20	23	1	39	19	20	.....	5	1	3	1
Schoolcraft.....	27,069	14,248	12,811	197	425	219	205	1	160	83	76	1	265	136	129	.....
Shiawassee.....	46,197	23,922	22,275	422	907	460	415	2	405	213	191	1	502	247	254	1
St. Clair.....	26,026	13,516	13,110	326	473	240	235	.....	252	136	136	.....	223	114	109	.....
St. Joseph.....	25,738	13,644	12,094	257	710	361	349	.....	232	132	120	.....	458	229	229	.....
Tuscola.....	30,907	15,737	15,050	287	475	254	220	1	204	102	102	.....	271	132	118	1
Van Buren.....	41,848	21,250	20,338	384	598	300	296	2	351	185	155	1	247	105	141	1
Washtenaw.....	106,444	82,917	83,527	1,576	5,069	2,703	2,394	2	2,454	1,294	1,158	2	2,645	1,409	1,236	.....
Wayne.....	6,815	3,903	2,912	106	240	116	124	.....	84	46	38	.....	156	70	86	.....
Wexford.....																

\* The figures with the minus sign placed before them indicate the excess of deaths over births.  
 † The population of Montmorency county was compiled with Alpena county.

**EXHIBIT E.**—*Showing, for the State and Counties of Michigan, the Number of Births and Deaths returned to this Department as having occurred out of Michigan during the Years 1881-2. (Presumably in Families Residing in Michigan.)*

STATE AND COUNTIES.	1881.		1882.		COUNTIES.	1881.		1882.	
	Births.	Deaths.	Births.	Deaths.		Births.	Deaths.	Births.	Deaths.
STATE.....	375	129	366	132	Lake.....	3	1	5	-----
Allegan.....	17	3	5	2	Lapeer.....	4	3	10	3
Alpena.....	1	-----	1	-----	Leelanaw.....	1	-----	2	-----
Antrim.....	6	-----	8	1	Lenawee.....	12	4	9	3
Baraga.....	-----	-----	1	-----	Livingston.....	-----	1	1	2
Barry.....	5	1	6	2	Macomb.....	1	-----	-----	1
Bay.....	10	3	19	2	Manistee.....	1	-----	7	1
Benzle.....	-----	1	-----	-----	Marquette.....	15	6	1	-----
Berrien.....	10	1	23	6	Mason.....	6	1	1	-----
Branch.....	2	5	8	9	Mecosta.....	6	1	4	-----
Calhoun.....	4	3	6	1	Midland.....	1	-----	-----	1
Cass.....	5	2	3	4	Missaukee.....	-----	1	-----	1
Charlevoix.....	6	-----	2	-----	Monroe.....	-----	7	-----	5
Cheboygan.....	1	-----	-----	-----	Montcalm.....	3	2	7	-----
Clare.....	-----	-----	1	-----	Muskegon.....	15	4	11	5
Climton.....	2	-----	-----	2	Newaygo.....	1	-----	3	-----
Crawford.....	-----	-----	1	-----	Oakland.....	2	2	4	-----
Eaton.....	5	2	4	3	Oceana.....	4	-----	-----	-----
Emmet.....	-----	-----	2	-----	Ogemaw.....	1	-----	-----	-----
Genesee.....	8	3	4	3	Osceola.....	10	2	3	1
Grand Traverse.....	2	-----	2	-----	Ottawa.....	9	3	11	3
Gratiot.....	1	-----	4	-----	Presque Isle.....	1	-----	1	-----
Houghton.....	5	-----	6	-----	Saginaw.....	-----	-----	38	8
Huron.....	3	2	-----	-----	Sanilac.....	9	6	16	3
Ingham.....	3	2	2	-----	Shiawassee.....	3	-----	10	2
Ionia.....	5	6	5	2	St. Clair.....	8	6	5	2
Iosco.....	8	1	6	-----	St. Joseph.....	3	5	14	2
Isabella.....	5	2	8	1	Tuscola.....	-----	-----	2	2
Jackson.....	12	3	4	2	Van Buren.....	5	3	2	5
Kalamazoo.....	-----	1	8	4	Washtenaw.....	7	2	11	1
Kalkaska.....	1	-----	2	1	Wayne.....	103	19	22	25
Kent.....	11	9	16	6	Wexford.....	3	-----	9	5
Keweenaw.....	1	-----	-----	-----					

## BIRTHS, 1882.

---

The whole number of births, returned as having occurred in Michigan during the year 1882, was 37,026. This number is greater than ever before, 2,277 greater than in the year 1881, and much greater than the average for the past fifteen years. The annual average number of births returned for the fifteen years 1868-1882 is 31,633, which is 5,393 less than the number reported for the year 1882. The increase of births should follow the increase of population with a certain degree of regularity.

The following tabular exhibit shows, according to our estimations, what per cent of births has been returned and also what per cent has been added as a correction for the omissions in the enumeration. In 1882, 74.31 per cent of the births were returned, while the average for the ten years 1873-1882 was only 69.25 per cent.

Y E A R S .	Per Cent of Births Returned.	Per Cent of Births Added as Correction for Omissions.
1873.....	76.72	30.34
1874.....	55.75	79.37
1875.....	68.61	45.76
1876.....	75.73	32.04
1877.....	66.47	50.44
1878.....	67.41	48.34
1879.....	68.05	46.91
1880.....	69.73	43.42
1881.....	69.76	43.35
1882.....	74.31	34.57
Av. for 10 years.....	69.25	45.45

The law by which the returns of births and deaths are made in the cities and towns is a defective one, and in all probability the number reported is less than it should be. The law provides that the facts concerning births and deaths shall be ascertained by the supervisors and assessors by house to house visitations which are made once during the year. In this way a certain num-



ber of births and deaths undoubtedly escape registration. Another source of error is the delay in collecting these statistics, which is made from five to sixteen months after the births and deaths occur, during which time removals and other causes may lead the enumerator to miss many returns which might be obtained under a more perfect system of registration.

It is well to remember the strong probability that the whole number of births returned is less than the whole number which actually occurred, and in consequence of which a correction has been made that amounts in 1882 to 34.57 per cent. of the births returned.

The census returns of 1880 are the only trustworthy basis on which to make the computations of the present work. The increase in population has, no doubt, been considerable, and this should be considered when comparisons are made with previous years. It should be remembered, however, that as the calculations are made on the same basis of population, the relative conclusions for the present year are reliable.

The total population of the State in 1880, according to the U. S. census, was 1,636,937. Subtracting from this 3,585, being the number of inhabitants from whom no returns of births were received during the year 1882, we have 1,633,352, the number of inhabitants in 1880 represented by the returns of births in 1882, as may be seen in the tabular exhibit below.

The birth-rate for 1882 was 2.27 for every one hundred persons, or 22.70 for every one thousand persons of the population. Including the still-born (792), a child was born to every 44 persons. When the returns of births are corrected for omissions in the enumeration, the birth-rate was 3.04 for every hundred of the inhabitants, or 30.40 for every thousand.

SEX.	Inhabitants in 1880 Represented by Births in 1882.	Births as Returned.	Births Corrected for Omissions in Enumerating.	PER CENT OF BIRTHS TO INHABITANTS.	
				Births as Returned.	Births Corrected for Omissions.
Total.....	1,633,352	37,036	49,680	2.27	3.04
Males.....	860,179	19,179	26,087	2.23	3.03
Females.....	773,173	17,787	23,593	2.30	3.05
Unknown.....	-----	60	-----	-----	-----

The number of births per quarter, per month, per week, and per day, during the year 1882 may be seen in the following tabular exhibit:

PERIODS OF TIME.	Births as Returned.	Corrected as per Exhibit A, 4th Enc.	Corrected with 45.45 Per Cent.
Per quarter.....	9,257	12,453	13,450
Per month.....	3,086	4,151	4,486
Per week.....	712	958	1,035
Per day.....	101	136	147

BIRTHS BY QUARTERS OF THE YEAR, BY MONTHS.

15

TABLE I.—Births by Quarters of the year Exhibiting the Number and Per Cent. of Totals for the years 1874 to 1882, inclusive, as Returned and as Corrected for Omissions in the Enumeration.

TOTALS, AND MONTHS WITH WHICH QUAR- TERS END.	1874.			1875.			1876.			1877.			1878.			1879.			1880.			1881.			1882.		
	Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.		Num. ber.	Per Ct. of Total.	
Totals.....	31,151	100.00		31,938	100.00		31,255	100.00		33,396	100.00		35,162	100.00		34,122	100.00		35,323	100.00		34,749	100.00		37,028	100.00	
( March.....	6,315	20.27		6,625	20.73		7,379	21.55		7,148	21.40		7,451	21.19		7,518	22.03		7,718	21.85		7,660	22.04		8,026	21.68	
June.....	7,608	24.42		7,962	24.91		8,330	24.36		7,995	23.94		8,539	24.28		8,174	23.96		8,476	24.00		8,404	24.18		8,823	23.83	
September.....	8,810	28.28		8,900	27.88		9,248	27.01		9,174	27.47		9,390	26.70		9,385	27.45		9,574	27.10		9,544	27.47		10,065	27.18	
December.....	8,373	26.88		8,402	26.29		9,105	26.77		9,007	26.97		9,750	27.73		9,035	26.47		9,519	26.93		9,111	26.22		10,071	27.20	
( Unknown.....	45	.14		60	.19		104	.30		71	.21		32	.09		30	.09		86	.10		30	.06		41	.11	
Average.....	7,788	25.00		7,990	25.00		8,556	25.00		8,349	25.00		8,791	25.00		8,531	25.00		8,831	25.00		8,087	25.00		9,257	25.00	
Totals.....	55,841	100.00		46,553	100.00		45,172	100.00		50,203	100.00		52,145	100.00		50,130	100.00		50,645	100.00		49,800	100.00		49,813	100.00	
( March.....	13,707	24.55		11,074	23.79		10,840	24.00		12,446	24.79		12,742	24.44		12,679	25.29		12,626	24.93		12,502	25.10		12,097	24.28	
June.....	14,768	26.45		12,261	26.34		11,480	25.41		12,748	25.39		13,455	25.76		12,680	25.29		12,908	25.29		12,675	25.45		12,420	24.95	
September.....	15,019	26.90		12,494	26.84		11,858	26.25		13,255	26.41		13,462	25.70		13,227	26.30		13,229	26.12		13,172	26.45		13,128	26.35	
December.....	12,302	22.03		10,664	22.91		10,490	24.11		11,680	23.27		12,534	24.04		11,514	22.97		11,944	23.86		11,421	22.93		12,117	24.53	
( Unknown.....	45	.08		60	.13		104	.23		71	.11		32	.06		30	.06		86	.07		30	.06		41	.08	
Average.....	13,960	25.00		11,638	25.00		11,993	25.00		12,551	25.00		13,030	25.00		12,533	25.00		12,661	25.00		12,450	25.00		12,453	25.00	

\* The number in unknown quarter of year included.

Table I. illustrates the fact that, according to the returns, more births occur in the last six months of the year than in the first six months. Usually the third quarter ending with September has the largest registry, but in 1882, the last quarter had over 27 per cent of all the recorded births. The comparison is carried through a series of years, and it is interesting to note with what uniformity it occurs year after year. In Massachusetts the order is the same as in this State, while in England it is the reverse, more births being recorded in the first six months of the year than in the last.

The average proportion of births, returned as having occurred in Michigan for each quarter of the year for the fifteen years 1868-1882, is as follows: first quarter 21.18 per cent, second quarter 23.96 per cent, third quarter 27.71 per cent, and fourth quarter 26.96 per cent. Calculated for fifteen years it is seen that 45.14 per cent of the births occurred in the first half of

TABLE II.—*Births during the Years 1874-1882, inclusive, according to arranged in Order by Number, Months*

ORDER.	1874.			1875.			1876.			1877.			1878.		
	Month.	Num-ber.	Per Ct. of Total.	Month.	Num-ber.	Per Ct. of Total.	Month.	Num-ber.	Per Ct. of Total.	Month.	Num-ber.	Per Ct. of Total.	Month.	Num-ber.	Per Ct. of Total.
	Total.	31,151	100.00	Total.	31,958	100.00	Total.	34,235	100.00	Total.	33,395	100.00	Total.	35,162	100.00
1	Aug...	3,077	9.88	Aug...	3,103	9.71	Dec...	3,205	9.36	Aug...	3,227	9.66	Dec...	3,423	9.73
2	Sept...	2,972	9.54	Sept...	3,081	9.64	Aug...	3,124	9.13	Dec...	3,145	9.42	Aug...	3,295	9.37
3	Dec...	2,921	9.38	Dec...	2,856	8.94	Sept...	3,110	9.08	Sept.	3,048	9.13	Oct.	3,268	9.29
4	July...	2,761	8.86	Oct...	2,819	8.82	Oct...	3,039	8.88	Oct.	3,015	9.03	Sept...	3,260	9.27
5	Oct...	2,726	8.75	Nov...	2,727	8.53	July...	3,014	8.80	July...	2,899	8.68	Nov...	3,061	8.71
6	Nov...	2,726	8.75	July...	2,725	8.53	Nov...	2,921	8.53	Nov...	2,847	8.53	Apr...	2,937	8.35
7	May...	2,586	8.30	May...	2,722	8.52	May...	2,870	8.38	Mar...	2,690	8.06	Mar...	2,836	8.07
8	June...	2,558	8.21	Apr...	2,710	8.48	Mar...	2,744	8.01	May...	2,683	8.03	July...	2,835	8.06
9	Apr...	2,464	7.91	June...	2,530	7.91	June...	2,739	8.00	June...	2,657	7.96	May...	2,805	7.98
10	Mar...	2,462	7.90	Mar...	2,415	7.56	Apr...	2,730	7.97	Apr...	2,655	7.95	June...	2,797	7.95
11	Feb...	1,954	6.27	Feb...	2,121	6.64	Feb...	2,352	6.87	Feb...	2,246	6.73	Feb...	2,414	6.87
12	Jan...	1,899	6.10	Jan...	2,089	6.53	Jan...	2,283	6.67	Jan...	2,212	6.62	Jan...	2,201	6.26
	Unk...	45	.14	Unk...	60	.19	Unk...	104	.30	Unk...	71	.21	Unk...	32	.09
	Av... <sup>a</sup>	2,596	8.33	Av... <sup>a</sup>	2,663	8.33	Av... <sup>a</sup>	2,853	8.33	Av... <sup>a</sup>	2,788	8.33	Av... <sup>a</sup>	2,930	8.33

<sup>a</sup> Including unknown month.

the year, and 54.67 per cent in the last half. When the returns of births are corrected for omissions, as is done in the lower part of the table, it has the effect of distributing the births more equally throughout the year.

Table II. shows the number and per cent of births in each month of the years 1874-1882, the months having the greatest number of births being placed first in order. In four of the six years August stands at the head of the columns and December in the other two. During the fifteen years 1868-1882, the month of August heads the list nine times, December four, and September twice. The months of January and February are the last in order of greatest number first, the former month being last in five of the six years. It should be remembered, however, that probably a larger proportion of the births are returned for the later months of the year, as has been explained in previous reports.

*the Returns, exhibiting the Number and Per Cent of Total, by Months, having the greatest number first.*

1879.			1880.			1881.			1882.			ORDER.
Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	
Total....	34,122	100.00	Total..	35,323	100.00	Total..	34,749	100.00	Total..	37,026	100.00	
Dec.....	3,233	9.47	Aug....	3,285	9.30	Aug. ..	3,313	9.53	Aug. ..	3,521	9.5	1
Aug.....	3,198	9.37	Sept....	3,278	9.28	Sept. ...	3,204	9.22	Dec....	3,477	9.3	2
Sept.....	3,149	9.23	Dec.....	3,278	9.28	Dec. .	3,179	9.15	Sept. ...	3,444	9.30	3
Oct.....	3,036	8.90	Oct.....	3,173	8.98	Oct....	3,078	8.86	Oct....	3,379	9.13	4
July.....	3,018	8.84	Nov....	3,068	8.69	July...	3,027	8.71	Nov....	3,215	8.68	
May.....	2,842	8.33	July...	3,011	8.52	May...	2,887	8.31	July...	3,100	8.37	6
Nov.....	2,760	8.11	May...	2,880	8.15	Nov....	2,854	8.21	Apr....	3,050	8.26	7
Mar.....	2,758	8.08	Mar....	2,850	8.07	Mar. ...	2,835	8.16	May ...	3,031	8.19	8
Apr.....	2,706	7.93	Apr....	2,824	7.99	Apr....	2,805	8.07	Mar....	3,004	8.11	9
June....	2,626	7.70	June..	2,772	7.85	June..	2,712	7.80	June..	2,733	7.38	10
Jan.....	2,429	7.12	Feb....	2,513	7.11	Feb....	2,432	7.00	Feb....	2,536	6.85	11
Feb.....	2,331	6.83	Jan....	2,355	6.67	Jan....	2,393	6.89	Jan....	2,486	6.72	12
Unk....	30	.09	Unk....	36	.10	Unk...	30	.09	Unk...	41	.11	
Av.....*	2,844	8.33	Av.....*	2,944	8.33	Av.....*	2,896	8.33	Av.....*	3,086	8.33	

\* Including unknown month.

**EXHIBIT 2.**—*Births during the Years 1878 to 1882, inclusive, as Corrected for Omissions in the Enumeration, exhibiting the Number and Per Cent of Total, by Months arranged in order by Number, Months having the greatest number first.*

	1878.			1879.			1880.			1881.			1882.		
	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.
<b>ORDER.</b>	<b>Total.</b>	52,145	100.00	<b>Total.</b>	50,130	100.00	<b>Total.</b>	50,643	100.00	<b>Total.</b>	49,800	100.00	<b>Total.</b>	49,813	100.00
1	Apr...	4,750	9.12	Mar...	4,530	9.04	Mar...	4,549	8.98	Aug...	4,575	9.19	Aug...	4,597	9.25
2	Mar...	4,730	9.07	Aug...	4,519	9.01	Aug...	4,543	8.97	Mar...	4,514	9.06	Mar...	4,432	8.90
3	Aug...	4,710	9.05	May...	4,407	8.79	Sept...	4,394	8.68	May...	4,353	8.74	Apr...	4,410	8.85
4	Sept...	4,504	8.64	July...	4,403	8.78	Apr...	4,387	8.66	Apr...	4,348	8.73	Sept...	4,379	8.79
5	May...	4,411	8.46	Apr...	4,321	8.62	May...	4,351	8.59	July...	4,308	8.65	May...	4,266	8.56
6	Oct...	4,357	8.36	Sept...	4,305	8.59	July...	4,292	8.48	Sept...	4,289	8.61	Oct...	4,182	8.40
7	June...	4,265	8.18	Jan...	4,213	8.40	Feb...	4,118	8.13	Jan...	4,013	8.06	July...	4,152	8.33
8	Dec...	4,240	8.13	Oct...	4,011	8.00	Oct...	4,118	8.13	Oct...	3,990	8.01	Dec...	4,066	8.16
9	July...	4,188	8.03	Dec...	3,975	7.93	June...	4,070	8.04	Feb...	3,975	7.98	Nov...	3,899	7.77
10	Feb...	4,131	7.92	June...	3,952	7.88	Dec...	3,975	7.83	June...	3,974	7.98	Jan...	3,837	7.70
11	Nov...	3,937	7.55	Feb...	3,936	7.85	Jan...	3,959	7.82	Dec...	3,852	7.74	Feb...	3,828	7.68
12	Jan...	3,881	7.44	Nov...	3,528	7.04	Nov...	3,851	7.60	Nov...	3,579	7.19	June...	3,754	7.53
	Unk...	33	.06	Unk...	30	.06	Unk...	38	.07	Unk...	30	.06	Unk...	41	.08
	Av. ...	4,345	8.33	Av. ...	4,178	8.33	Av. ...	4,220	8.33	Av. ...	4,150	8.33	Av. ...	4,151	8.33

\* Including births in unknown month.

Exhibit 2 is similar in plan to Table II. and is designed to show the order of the months after the returns of births are corrected for the probable omissions in the enumeration. By comparing the two it will be seen that the order of the months is not the same, but August still maintains its place at the head of the list.

The same principle of correction, employed in previous reports for the omissions in the enumeration of births, is applied to the returns for the year 1882, and the results may be seen in Exhibits A, B, C, D, and 3. This correction is based upon the supposition that the omissions are in proportion to the time which elapses between the occurrence of the births and their enumeration by the supervisors.



EXHIBIT A.—Births in Michigan during the Year 1882, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected, and Equalized for the several Months, Equalized for Months of a Uniform length of 30.44 days each; also, indicating some of the steps by which these results have been reached. (Still-births and Children of unknown Sex included.)

	TOTAL.	MONTHS, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers	36,985	2,486	2,536	3,004	3,029	3,031	2,733	3,100	3,521	3,444	3,379	3,215	3,477
Per cent of births to be added for correction for time elapsing before enumeration		54.35	50.95	47.55	44.15	40.75	37.35	33.95	30.55	27.15	23.75	20.35	16.95
Number of births to be added for above correction	12,787	1,351	1,292	1,428	1,351	1,235	1,021	1,052	1,076	935	803	654	589
Births, if enumerated in months of occurrence	49,772	3,837	3,828	4,432	4,410	4,266	3,754	4,152	4,597	4,379	4,182	3,869	4,066
Per cent of births to be added to equalize them to population at close of year		4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	1,133	162	148	155	139	120	92	88	81	62	44	27	14
Births, as corrected, equalized to population at close of year	50,905	3,999	3,976	4,588	4,549	4,386	3,846	4,240	4,678	4,441	4,226	3,896	4,080
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length		— .56	+ 2.44	— .56	+ .44	— .56	+ .44	— .56	— .56	+ .44	— .56	+ .44	— .56
Number of births added or subtracted to equalize them to months of uniform length	+ 45	— 72	+ 346	— 83	+ 67	— 79	+ 56	— 77	— 85	+ 65	— 76	+ 57	— 74
Births, corrected and equalized, equalized to months of uniform length	50,950	3,927	4,322	4,505	4,616	4,307	3,902	4,163	4,593	4,506	4,150	3,953	4,006

\* Excluding 41 births in unknown month.

EXHIBIT B.—Births of Males in Michigan during the Year 1882, as Returned, as Corrected for Omissions in the Enumeration; the same equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

	TOTAL.	MONTHS, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of Males as returned by Registration Officers.....	19,166	1,307	1,305	1,565	1,598	1,553	1,380	1,622	1,823	1,814	1,756	1,648	1,785
Per cent of births to be added for correction for time elapsing before enumeration.....		56.62	53.08	49.54	46.00	42.46	38.92	35.38	31.84	28.30	24.76	21.22	17.68
Number of births to be added for above correction.....	6,908	740	692	775	735	659	537	574	580	512	435	350	317
Births of Males, if enumerated in months of occurrence.....	26,074	2,047	1,998	2,340	2,333	2,213	1,917	2,196	2,403	2,327	2,191	1,998	2,112
Per cent of births to be added to equalize them to population at close of year.....		4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year.....	593	86	77	89	74	62	47	46	42	33	23	14	7
Births of Males, as corrected, equalized to population at close of year.....	26,667	2,133	2,075	2,422	2,407	2,274	1,964	2,242	2,445	2,360	2,214	2,012	2,119
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....		-.56	+2.44	-.56	+44	-.56	+44	-.56	-.56	+44	-.56	+44	-.56
Number of births added or subtracted to equalize them to months of uniform length.....	+24	-39	+181	-44	+35	-41	+29	-46	-44	+35	-40	+30	-38
Births of Males, corrected and equalized, equalized to months of uniform length.....	26,691	2,094	2,256	2,378	2,442	2,233	1,993	2,292	2,401	2,395	2,174	2,042	2,081

\* Excluding 13 births in unknown month.

BIRTHS OF FEMALES, CORRECTED FOR OMISSIONS.

21

EXHIBIT C.—Births of Females in Michigan during the Year 1882, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

	TOTAL.	MONTHS, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of Females as returned by Registration Officers.....	17,763	1,176	1,228	1,437	1,456	1,473	1,350	1,473	1,694	1,625	1,619	1,556	1,675
Per cent of births to be added for correction for time elapsing before enumeration.....		51.36	48.15	44.94	41.73	38.52	35.31	32.10	28.89	25.68	22.47	19.26	16.05
Number of births to be added for above correction.....	5,806	604	591	640	608	567	477	473	489	418	384	300	269
Births of Females, if enumerated in months of occurrence.....	23,569	1,780	1,819	2,083	2,064	2,040	1,827	1,946	2,183	2,044	1,983	1,856	1,944
Per cent of births to be added to equalize them to population at close of year.....		4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year.....	532	74	70	73	65	57	45	41	38	29	21	13	6
Births of Females, as corrected, equalized to population at close of year.....	24,101	1,854	1,889	2,156	2,129	2,097	1,872	1,987	2,221	2,073	2,004	1,869	1,950
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....		—56	+2.44	—56	+44	—56	+44	—56	—16	+44	—56	+44	—56
Number of births added or subtracted to equalize them to months of uniform length.....	+23	—33	+165	—39	+31	—38	+27	—36	—40	+30	—36	+27	—35
Births of Females, corrected and equalized, equalized to months of uniform length.....	24,124	1,821	2,054	2,117	2,160	2,059	1,899	1,951	2,181	2,103	1,968	1,896	1,915

\* Excluding 24 births in unknown month.





## 23

	MONTHS, 1882.											
	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL.</b>												
Births, if enumerated in months of occurrence.....	49,772	3,837	3,828	4,432	4,410	4,268	3,734	4,152	4,597	4,379	3,980	4,066
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....		—56	+244	—56	+44	—56	+44	—56	+44	—56	+44	—56
Number of births added or subtracted to equalize them to months of uniform length.....	+42	—69	+334	—80	+65	—77	+55	—75	+64	—76	+57	—73
Births, corrected and equalized to months of uniform length.....	49,814	3,768	4,162	4,392	4,475	4,186	3,909	4,077	4,514	4,106	3,996	3,968

• Excluding 41 births in unknown month.

It is interesting to compare the number of births with the number of marriages in months of conception of the births. This is done in Table III. and Exhibit E, where the influence of the marriage-rate upon the conception-rate may be studied. It is seen that about 37,000 conceptions, or births nine months later, occurred in the months in which 16,000 marriages were solemnized.

TABLE III.—*Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1882, and the Marriages solemnized in the Months of the Years 1881 and 1882, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)*

BIRTHS RETURNED AS HAVING OCCURRED IN 1882, EQUALIZED TO MONTHS OF 30.44 DAYS EACH, IN ORDER BY NUMBER, GREATEST FIRST.					Number of Marriages from April, 1881, to March, 1882, equalized to Months of 30.44 days each. <sup>b</sup>
BIRTHS. <sup>a</sup>		CONCEPTIONS.			
Year and Months.		Number.	Months.	Year.	
Year .....		36,991	.....	.....	15,907
More than the Av. No. of Births.	September.....	3,495	December.....	1881	1,661
	August.....	3,457	November.....	1881	1,678
	December.....	3,415	March..... <sup>c</sup>	1882	1,180
	October.....	3,313	January..... <sup>c</sup>	1882	1,318
	November.....	3,282	February..... <sup>c</sup>	1882	1,334
	April.....	3,103	July..... <sup>c</sup>	1881	1,254
Average.....		3,083	.....	.....	1,317
Less than the Av. No. of Births.	July.....	3,044	October..... <sup>c</sup>	1881	1,623
	May.....	2,976	August.....	1881	1,068
	March.....	2,950	June.....	1881	1,143
	June.....	2,773	September..... <sup>c</sup>	1881	1,423
	February.....	2,737	May.....	1881	1,167
	January.....	2,441	April.....	1881	1,150

<sup>a</sup> Excluding 41 births in unknown month.

<sup>b</sup> Corrected up to December 17, 1882.

<sup>c</sup> Exceptions to the proposition that more than the average number of conceptions appear for months when more than the average number of marriages were solemnized, and vice versa.

When the births are corrected for omissions in the enumeration, as is done in Exhibit E, it is seen that there are also six exceptions to the proposition that a large marriage-rate in the months of the conception of the births is followed by a large birth-rate.

**EXHIBIT E.**—*The Relation between the Births in Michigan during the Year 1882, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1881 and 1882, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)*

BIRTHS, 1882, CORRECTED AS IF ENUMERATED IN MONTHS OF OCCURRENCE, AND EQUALIZED TO MONTHS OF UNIFORM LENGTH, IN ORDER BY NUMBER, GREATEST FIRST.					No. of Marriages from April, 1881, to March, 1882, Equalized to Months of 30.44 Days, each. <sup>b</sup>
BIRTHS. <sup>a</sup>		CONCEPTIONS.			
Year and Months.	Number.	Months.	Year.		
Year .....	49,814	.....	.....	15,807	
More than the Av. No. of Births.	August .....	4,514	November .....	1881	1,678
	April .....	4,475	July .....	<sup>c</sup> 1881	1,254
	September .....	4,443	December .....	1881	1,661
	March .....	4,352	June .....	<sup>c</sup> 1881	1,142
	May .....	4,189	August .....	<sup>c</sup> 1881	1,068
	February .....	4,162	May .....	<sup>c</sup> 1881	1,167
Average .....	4,151	.....	.....	.....	1,317
Less than the Av. No. of Births.	October .....	4,106	January .....	1882	1,218
	July .....	4,077	October .....	<sup>c</sup> 1881	1,623
	December .....	3,993	March .....	1882	1,180
	November .....	3,926	February .....	1882	1,234
	June .....	3,809	September .....	<sup>c</sup> 1881	1,423
	January .....	3,768	April .....	1881	1,159

<sup>a</sup> Unknown month excluded.

<sup>b</sup> Corrected for additional returns up to December 17, 1883.

<sup>c</sup> Exceptions to the proposition that *more* than the average number of conceptions appear for months when *more* than the average number of marriages were solemnized, and *vice versa*.

#### PROPORTION OF THE SEXES.

In Table IV. may be found the number of the children born in each county of the State during the year 1882, the number in each month of the year, and the number of each sex respectively. According to the returns, the number of male children born in Michigan during the year 1882, was 19,179. This number is larger by 1,238 than that of 1881, and larger by 806 than in any is year. The number of female children whose births were returned in as 17,787, which is also larger than has been recorded in any previous every year the number of male children in Michigan has been larger number of female children. For a period of fifteen years from 1868

to 1882, the average excess of male births in this State has been 109 males to each 100 females.

Quite a variation will be seen in Table IV. in the proportion of the sexes in the different counties. In 52 counties there was an excess of male births, in 20 counties of female births, and in 6 counties the number was equal. Comparing the relative proportion of the sexes in the larger counties of the State where the returns are more complete, it is seen that Ionia county has the largest excess of male births, while Kalamazoo county has the largest excess of female births.

The number of births in 1882, in which the sex was not reported, was 60, one less than in 1881. Of this number, 11 were in the two counties of Berrien and Ottawa.

**TABLE IV.**—*Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1882. (Still-births included.)*

STATE AND COUNTIES.	SEX.	YEAR. 1882.	MONTHS, 1882.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
State.....	Total.....	37,026	2486	2536	3004	3000	3031	2733	3100	3321	3444	3379	3215	3477	
	Males.....	19,179	1267	1365	1565	1598	1553	1280	1622	1825	1814	1756	1648	1795	
	Females.....	17,847	1176	1222	1437	1436	1473	1350	1473	1694	1626	1619	1556	1673	
	Unknown.....	60	3	3	2	5	5	3	5	4	4	4	11	7	
Alcona.....	Total.....	17	1	.....	1	3	3	3	1	2	1	1	.....	1	
	Males.....	10	1	.....	1	.....	3	2	1	1	1	.....	.....	.....	
	Females.....	7	.....	.....	.....	3	.....	1	.....	1	.....	1	.....	1	
	Total.....	17	1	.....	1	3	3	3	1	2	1	1	.....	1	
Alcona.....	Males.....	10	1	.....	1	.....	3	2	1	1	1	.....	.....	.....	
	Females.....	7	.....	.....	.....	3	.....	1	.....	1	.....	1	.....	1	
Alcona.....	Total.....	17	1	.....	1	3	3	3	1	2	1	1	.....	1	
	Males.....	10	1	.....	1	.....	3	2	1	1	1	.....	.....	.....	
Alcona.....	Total.....	17	1	.....	1	3	3	3	1	2	1	1	.....	1	
	Males.....	10	1	.....	1	.....	3	2	1	1	1	.....	.....	.....	



TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Bay .....	Total.....	1,510	118	97	109	133	144	111	119	135	142	126	137	139	---
	Males.....	818	66	56	65	67	78	61	69	67	79	68	70	72	---
	Females.....	692	52	41	44	66	66	50	50	68	63	58	67	67	---
Benzie.....	Total.....	103	5	3	6	16	8	9	10	11	6	7	9	13	---
	Males.....	49	4	1	1	11	3	2	6	4	3	5	3	6	---
	Females.....	54	1	2	5	5	5	7	4	7	3	2	6	7	---
Berrien .....	Total.....	664	55	52	61	53	50	43	47	65	51	74	49	63	1
	Males.....	362	34	30	33	29	24	23	23	39	25	39	25	38	---
	Females.....	297	21	22	27	24	26	20	23	26	25	34	24	24	1
	Unknown.....	5	---	---	1	---	---	---	1	---	1	1	---	1	---
Branch.....	Total.....	400	25	30	30	36	43	34	40	40	30	33	25	34	---
	Males.....	217	14	14	15	22	28	16	25	18	17	16	11	21	---
	Females.....	183	11	16	15	14	15	18	15	22	13	17	14	13	---
Calhoun .....	Total.....	571	22	26	39	42	50	48	41	64	62	78	53	46	---
	Males.....	309	12	13	22	23	25	30	29	40	29	35	26	25	---
	Females.....	262	10	13	17	19	25	18	12	24	33	43	27	21	---
Cass.....	Total.....	378	22	22	34	26	31	23	43	50	39	34	21	33	---
	Males.....	182	11	15	12	13	17	7	19	25	20	17	9	17	---
	Females.....	196	11	7	22	13	14	16	24	25	19	17	12	16	---
Charlevoix .....	Total.....	187	12	15	12	17	19	9	18	22	21	13	15	14	---
	Males.....	104	6	7	8	11	9	6	12	9	12	7	7	10	---
	Females.....	80	6	8	4	6	9	3	6	12	9	6	7	4	---
	Unknown.....	3	---	---	---	---	1	---	---	1	---	---	1	---	---
Cheboygan .....	Total.....	232	18	17	23	27	25	26	9	14	21	14	15	22	1
	Males.....	116	11	9	14	14	10	14	5	5	9	5	8	12	---
	Females.....	116	7	8	9	13	15	12	4	9	12	9	7	10	1
Chippewa.....	Total.....	126	9	13	13	12	15	15	7	11	8	5	11	7	---
	Males.....	63	7	2	5	8	7	7	4	4	5	4	6	4	---
	Females.....	63	2	11	8	4	8	8	3	7	3	1	5	3	---
Crawford .....	Total.....	101	8	4	7	12	6	10	7	8	8	12	8	6	5
	Males.....	56	4	2	5	6	2	6	5	2	4	10	5	4	1
	Females.....	42	4	2	2	5	4	4	2	5	4	2	3	2	3
	Unknown.....	3	---	---	---	1	---	---	---	1	---	---	---	---	1
Ontonagon .....	Total.....	443	16	29	37	42	32	43	45	41	37	40	38	43	---
	Males.....	224	9	16	23	16	16	20	19	28	19	17	19	22	---
	Females.....	219	7	13	14	26	16	23	26	13	18	23	19	21	---

to 1882, the average excess of male births in this State has been 109 males to each 100 females.

Quite a variation will be seen in Table IV. in the proportion of the sexes in the different counties. In 52 counties there was an excess of male births, in 20 counties of female births, and in 6 counties the number was equal. Comparing the relative proportion of the sexes in the larger counties of the State where the returns are more complete, it is seen that Ionia county has the largest excess of male births, while Kalamazoo county has the largest excess of female births.

The number of births in 1882, in which the sex was not reported, was 60, one less than in 1881. Of this number, 11 were in the two counties of Berrien and Ottawa.

**TABLE IV.**—*Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1882. (Still-births included.)*

STATE AND COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.	Unknown.
State.....	Total.....	37,026	2486	2536	3004	3059	3031	2733	3100	3321	3444	3379	3215	3477	41
	Males.....	19,179	1307	1305	1565	1598	1553	1380	1622	1823	1814	1756	1648	1795	18
	Females.....	17,787	1176	1228	1437	1456	1473	1350	1473	1694	1626	1619	1556	1675	24
	Unknown.....	60	3	3	2	5	5	3	5	4	4	4	11	7	4
Alcona.....	Total.....	17	1	..	1	3	3	3	1	2	1	1	..	1	..
	Males.....	10	1	..	1	..	2	2	1	1	1	..	..	..	..
	Females.....	7	..	..	..	3	..	1	..	1	..	1	..	1	..
Allegan.....	Total.....	777	52	57	67	63	68	63	55	78	68	78	56	69	3
	Males.....	365	30	22	30	39	31	26	27	30	29	39	27	35	..
	Females.....	410	22	35	37	24	37	37	27	48	39	39	29	34	2
	Unknown.....	2	..	..	..	..	..	..	1	..	..	..	..	..	1
Alpena.....	Total.....	352	36	29	31	30	33	18	30	34	24	25	24	38	..
	Males.....	169	17	12	18	17	14	5	16	18	7	14	12	19	..
	Females.....	182	19	17	12	13	19	13	14	16	17	11	12	19	..
	Unknown.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..
Antrim.....	Total.....	146	7	8	13	10	19	13	12	9	19	11	15	10	..
	Males.....	76	4	6	2	5	8	8	5	6	13	5	9	5	..
	Females.....	70	3	2	11	5	11	5	7	3	6	6	6	5	..
Baraga.....	Total.....	63	1	4	7	6	7	4	10	3	5	3	5	8	..
	Males.....	30	1	2	5	2	3	2	5	2	1	1	2	4	..
	Females.....	33	..	2	2	4	4	2	5	1	4	2	3	4	..
Barry.....	Total.....	430	21	24	31	30	37	33	39	56	45	38	37	48	..
	Males.....	215	9	13	22	14	18	16	13	26	24	19	16	25	..
	Females.....	215	12	11	9	16	19	17	17	30	21	19	21	23	..

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Bay	Total.....	1,510	118	97	109	133	144	111	119	135	142	126	137	139	---
	Males.....	818	66	56	65	67	78	61	69	67	79	68	70	72	---
	Females.....	692	52	41	44	66	66	50	50	68	63	58	67	67	---
Benzie	Total.....	103	5	3	6	16	8	9	10	11	6	7	9	13	---
	Males.....	49	4	1	1	11	3	2	6	4	3	5	3	6	---
	Females.....	54	1	2	5	5	5	7	4	7	3	2	6	7	---
Berrien	Total.....	664	55	52	61	53	50	43	47	65	51	74	49	63	1
	Males.....	362	34	30	33	29	24	23	23	39	25	39	25	38	---
	Females.....	297	21	22	27	24	26	20	23	26	25	34	24	24	1
	Unknown.....	5	---	---	1	---	---	---	1	---	1	1	---	1	---
Branch	Total.....	400	25	30	30	36	43	34	40	40	30	33	25	34	---
	Males.....	217	14	14	15	22	28	16	25	18	17	16	11	21	---
	Females.....	183	11	16	15	14	15	18	15	22	13	17	14	13	---
Calhoun	Total.....	571	22	26	39	42	50	48	41	64	62	78	53	46	---
	Males.....	309	12	13	22	23	25	30	29	40	29	35	26	25	---
	Females.....	262	10	13	17	19	25	18	12	24	33	43	27	21	---
Cass	Total.....	378	22	22	34	26	31	23	43	50	39	34	21	33	---
	Males.....	182	11	15	12	13	17	7	19	25	20	17	9	17	---
	Females.....	196	11	7	22	13	14	16	24	25	19	17	12	16	---
Charlevoix	Total.....	187	12	15	12	17	19	9	18	22	21	13	15	14	---
	Males.....	104	6	7	8	11	9	6	12	9	12	7	7	10	---
	Females.....	80	6	8	4	6	9	3	6	12	9	6	7	4	---
	Unknown.....	3	---	---	---	---	1	---	---	1	---	---	1	---	---
Cheboygan	Total.....	232	18	17	23	27	25	26	9	14	21	14	15	22	1
	Males.....	116	11	9	14	14	10	14	5	5	9	5	8	12	---
	Females.....	116	7	8	9	13	15	12	4	9	12	9	7	10	1
Chippewa	Total.....	126	9	13	13	12	15	15	7	11	8	5	11	7	---
	Males.....	63	7	2	5	8	7	7	4	4	5	4	6	4	---
	Females.....	63	2	11	8	4	8	8	3	7	3	1	5	3	---
Clare	Total.....	101	8	4	7	12	6	10	7	8	8	12	8	6	5
	Males.....	56	4	2	5	6	2	6	5	2	4	10	5	4	1
	Females.....	42	4	2	2	5	4	4	2	5	4	2	3	2	3
	Unknown.....	3	---	---	---	1	---	---	---	1	---	---	---	---	1
Clinton	Total.....	443	16	29	37	42	32	43	45	41	37	40	38	43	---
	Males.....	224	9	16	23	16	16	20	19	28	19	17	19	22	---
	Females.....	219	7	13	14	26	16	23	26	13	18	23	19	21	---



TABLE IV.—CONTINUED—Births by Counties, by Months, and by Sex.

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Crawford	Total.....	43	1	1	2	2	4	2	7	6	7	5	3	3	---
	Males.....	23	1	---	2	---	3	2	3	5	4	1	1	1	---
	Females.....	19	---	1	---	2	1	---	3	1	3	4	2	2	---
	Unknown.....	1	---	---	---	---	---	---	1	---	---	---	---	---	---
Delta	Total.....	141	6	10	13	16	20	5	12	12	13	9	11	14	---
	Males.....	64	1	5	6	6	13	1	5	6	7	3	4	7	---
	Females.....	77	5	5	7	10	7	4	7	6	6	6	7	7	---
Eaton	Total.....	476	29	25	39	43	39	36	45	55	34	36	47	48	---
	Males.....	256	15	12	17	23	19	16	25	31	20	20	30	28	---
	Females.....	219	14	13	22	20	20	20	20	24	14	16	16	20	---
	Unknown.....	1	---	---	---	---	---	---	---	---	---	---	1	---	---
Emmet	Total.....	142	5	10	9	17	14	9	12	13	15	13	12	13	---
	Males.....	74	2	5	5	8	6	4	9	7	8	6	7	7	---
	Females.....	68	3	5	4	9	8	5	3	6	7	7	5	6	---
Genesee	Total.....	668	39	39	54	64	66	41	57	63	68	62	62	53	---
	Males.....	347	21	16	25	39	36	21	28	31	37	32	31	30	---
	Females.....	321	18	23	29	25	30	20	29	32	31	30	31	23	---
Gladwin	Total.....	17	---	1	---	1	2	3	1	2	2	2	---	3	---
	Males.....	8	---	1	---	---	---	2	---	---	1	1	---	3	---
	Females.....	8	---	---	---	---	2	1	1	2	1	1	---	---	---
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---	---
Grand Traverse	Total.....	107	12	10	6	13	9	2	8	12	6	10	8	11	---
	Males.....	51	6	4	3	7	4	1	5	2	3	4	3	9	---
	Females.....	56	6	6	3	6	5	1	3	10	3	6	5	2	---
Gratiot	Total.....	483	36	31	28	40	36	32	56	50	44	41	41	47	1
	Males.....	244	17	17	14	23	15	17	33	25	19	24	17	23	---
	Females.....	239	19	14	14	17	21	15	23	25	25	17	24	24	1
Hillsdale	Total.....	469	32	37	30	35	31	38	37	53	41	53	46	36	---
	Males.....	246	16	21	15	16	15	17	21	32	22	29	24	18	---
	Females.....	223	16	16	15	19	16	21	16	21	19	24	22	18	---
Houghton	Total.....	858	52	51	90	85	55	55	76	80	65	77	73	94	5
	Males.....	459	27	27	47	47	29	29	41	41	40	46	39	44	2
	Females.....	399	25	24	43	38	26	26	35	39	25	31	34	50	3
Huron	Total.....	681	55	41	53	59	56	53	50	50	58	69	59	77	1
	Males.....	362	29	29	28	34	31	26	31	25	26	45	32	35	---
	Females.....	319	35	12	25	25	25	27	19	25	32	24	27	42	1

TABLE IV.—CONTINUED —*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ingham	Total.....	565	37	47	32	52	35	32	51	42	60	69	55	53	---
	Males.....	269	20	21	13	22	19	15	24	17	36	31	25	26	---
	Females.....	296	17	26	19	30	16	17	27	25	24	38	30	27	---
Ionia	Total.....	545	40	28	38	53	57	44	53	57	43	42	40	50	---
	Males.....	316	18	16	23	32	28	23	33	34	28	28	24	29	---
	Females.....	229	22	12	15	21	29	21	20	23	15	14	16	21	---
Iosco	Total.....	191	8	19	18	10	29	16	12	18	20	21	11	9	---
	Males.....	100	5	9	8	7	19	9	6	12	13	13	4	4	---
	Females.....	82	3	10	10	3	10	7	6	6	7	8	7	5	---
Isabella	Total.....	335	18	19	18	28	40	29	31	39	28	31	34	16	4
	Males.....	169	12	10	8	16	21	14	17	14	13	20	20	3	1
	Females.....	164	6	9	10	11	18	15	14	25	15	11	14	13	3
	Unknown.....	2	---	---	---	1	1	---	---	---	---	---	---	---	---
Isle Royal	Total.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jackson	Total.....	742	42	60	49	55	56	58	62	78	76	75	57	75	---
	Males.....	370	24	26	28	27	28	31	35	43	36	29	29	34	---
	Females.....	370	18	33	21	28	27	27	27	35	40	45	28	41	---
	Unknown.....	2	---	1	---	---	---	---	---	---	---	1	---	---	---
Kalamazoo	Total.....	550	37	43	40	43	46	43	37	67	56	45	41	48	4
	Males.....	253	18	19	24	16	24	18	15	32	30	16	17	22	2
	Females.....	296	19	24	16	26	22	25	22	35	26	29	24	26	2
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---	---
Kalamazoo	Total.....	77	6	7	3	6	7	9	5	13	5	3	1	4	8
	Males.....	39	3	4	2	4	6	5	2	3	3	1	---	---	6
	Females.....	38	3	3	1	2	1	4	3	10	2	2	1	4	2
Kent	Total.....	1,620	95	99	131	124	123	117	115	162	172	168	151	161	2
	Males.....	853	46	48	67	67	65	62	61	86	97	85	86	82	1
	Females.....	766	49	51	64	57	58	55	54	76	75	83	64	79	1
	Unknown.....	1	---	---	---	---	---	---	---	---	---	---	1	---	---
Keweenaw	Total.....	289	16	20	33	29	26	23	27	29	22	26	19	19	---
	Males.....	145	10	9	13	13	17	13	12	16	10	13	9	10	---
	Females.....	143	6	11	20	16	9	10	15	13	12	12	10	9	---
	Unknown.....	1	---	---	---	---	---	---	---	---	---	1	---	---	---
Keweenaw	Total.....	100	3	9	7	12	11	8	9	9	9	11	6	6	---
	Males.....	53	2	4	5	9	4	4	3	3	7	6	3	3	---
	Females.....	47	1	5	2	3	7	4	6	6	2	5	3	3	---



TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Mecosta.....	Total.....	405	26	31	35	49	24	36	36	40	37	40	21	30	---
	Males.....	218	8	19	17	27	13	23	21	16	21	23	14	16	---
	Females.....	187	18	12	18	22	11	13	15	24	16	17	7	14	---
Menominee.....	Total.....	254	21	16	18	23	15	14	22	24	26	17	30	28	---
	Males.....	122	7	8	5	11	6	9	13	13	10	11	13	16	---
	Females.....	129	14	8	13	12	9	5	9	11	16	6	14	12	---
	Unknown.....	3	---	---	---	---	---	---	---	---	---	---	3	---	---
Midland.....	Total.....	135	4	11	14	10	12	16	7	14	11	14	11	11	---
	Males.....	64	---	8	7	3	6	7	2	11	3	6	6	5	---
	Females.....	71	4	3	7	7	6	9	5	3	8	8	5	6	---
Missaukee.....	Total.....	62	1	3	4	11	3	4	7	10	5	6	5	3	---
	Males.....	27	1	2	---	6	1	2	2	3	2	3	2	3	---
	Females.....	32	---	---	4	5	2	1	5	7	2	3	3	---	---
	Unknown.....	3	---	1	---	---	---	1	---	---	1	---	---	---	---
Monroe.....	Total.....	776	40	61	57	64	58	65	60	75	63	74	78	81	---
	Males.....	424	28	28	29	33	32	41	32	44	32	40	37	48	---
	Females.....	352	12	33	28	31	26	24	28	31	31	34	41	33	---
Montcalm.....	Total.....	632	47	32	53	51	44	44	54	73	67	50	56	61	---
	Males.....	324	23	15	28	24	19	22	24	42	30	31	32	34	---
	Females.....	307	24	17	25	27	24	22	30	31	37	19	24	27	---
	Unknown.....	1	---	---	---	---	1	---	---	---	---	---	---	---	---
Montmorency.....	Total.....	13	1	2	1	1	---	1	3	---	---	3	1	---	---
	Males.....	9	1	---	1	---	---	---	3	---	---	3	1	---	---
	Females.....	4	---	2	---	1	---	1	---	---	---	---	---	---	---
Muskegon.....	Total.....	888	76	56	72	53	69	71	69	81	88	82	83	88	---
	Males.....	444	41	27	38	29	32	38	34	36	42	45	38	44	---
	Females.....	443	35	29	34	24	37	32	35	45	46	37	45	44	---
	Unknown.....	1	---	---	---	---	---	1	---	---	---	---	---	---	---
Newaygo.....	Total.....	288	10	24	28	26	32	17	25	32	35	16	22	20	1
	Males.....	145	6	13	16	13	15	7	13	18	13	8	15	8	---
	Females.....	143	4	11	12	13	17	10	12	14	22	8	7	12	1
Oakland.....	Total.....	570	43	28	34	42	35	39	62	65	72	51	43	46	---
	Males.....	292	19	13	15	23	17	18	31	38	38	30	29	21	---
	Females.....	275	23	15	19	19	18	21	30	27	34	21	23	25	---
	Unknown.....	3	1	---	---	---	---	---	1	---	---	---	1	---	---

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Oceana.....	Total.....	283	11	13	34	28	25	15	26	31	29	24	23	24	....
	Males.....	137	5	6	16	18	12	5	13	14	14	16	8	10	....
	Females.....	146	6	7	18	10	13	10	13	17	15	8	15	14	....
Ogemaw.....	Total.....	50	1	3	....	5	2	6	6	5	7	2	7	6	....
	Males.....	23	1	1	....	3	1	1	4	3	1	1	4	3	....
	Females.....	27	....	2	....	2	1	5	2	2	6	1	3	3	....
Ontonagon.....	Total.....	76	4	4	3	6	8	5	8	7	10	9	5	7	....
	Males.....	46	3	4	1	2	6	3	6	3	6	5	2	5	....
	Females.....	30	1	....	2	4	2	2	2	4	4	4	3	2	....
Osceola.....	Total.....	311	16	17	21	27	33	29	36	25	28	33	24	22	....
	Males.....	170	8	11	11	13	13	16	21	15	17	18	12	15	....
	Females.....	141	8	6	10	14	20	13	15	10	11	15	12	7	....
Oscoda.....	Total.....	14	....	1	....	1	2	....	1	5	1	2	....	1	....
	Males.....	6	....	1	....	....	1	....	1	2	....	1	....	....	....
	Females.....	8	....	....	....	1	1	....	....	3	1	1	....	1	....
Otsego.....	Total.....	44	2	....	1	1	4	5	1	6	5	7	8	4	....
	Males.....	23	....	....	....	1	2	4	....	4	3	4	3	2	....
	Females.....	21	2	....	1	....	2	1	1	2	2	3	5	2	....
Ottawa.....	Total.....	888	65	82	85	75	70	64	79	74	73	73	74	73	1
	Males.....	449	29	42	44	36	38	34	41	38	40	37	31	39	....
	Females.....	433	36	40	41	39	32	29	38	34	32	36	43	33	....
	Unknown.....	6	....	....	....	....	....	1	....	2	1	....	....	1	1
Presque Isle.....	Total.....	143	3	9	16	16	13	14	7	9	9	18	16	13	....
	Males.....	84	....	7	7	10	6	11	5	5	4	10	11	8	....
	Females.....	59	3	2	9	6	7	3	2	4	5	8	5	5	....
Roscommon.....	Total.....	26	....	....	5	4	1	3	4	5	2	1	....	1	....
	Males.....	17	....	....	3	1	....	3	3	3	2	1	....	1	....
	Females.....	9	....	....	2	3	1	....	1	2	....	....	....	....	....
Saginaw.....	Total.....	1,613	116	124	134	131	137	131	161	132	132	135	131	149	....
	Males.....	855	68	70	71	65	76	62	99	67	69	72	63	73	....
	Females.....	757	48	54	63	66	61	69	62	65	63	63	68	75	....
	Unknown.....	1	....	....	....	....	....	....	....	....	....	....	....	1	....
Sanilac.....	Total.....	740	44	38	70	78	60	51	61	62	73	76	59	68	....
	Males.....	400	27	20	36	51	31	19	30	30	39	42	37	38	....
	Females.....	340	17	18	34	27	29	32	31	32	34	34	22	30	....

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Schoolcraft	Total.....	44	4	1	3	3	5	4	6	2	4	4	3	4	1
	Males.....	20			2	1	2	2	4	1	2	3	1	2	
	Females.....	23	4	1	1	2	3	2	2	1	2	1	2	2	
	Unknown.....	1													1
Shiawassee	Total.....	425	16	28	28	29	36	39	32	36	40	41	44	55	1
	Males.....	219	12	12	15	15	17	19	9	20	22	23	21	34	
	Females.....	205	4	15	13	14	19	20	23	16	18	18	23	21	1
	Unknown.....	1		1											
St. Clair	Total.....	907	59	69	76	62	59	69	74	91	90	85	85	87	1
	Males.....	460	34	33	35	29	26	36	35	53	43	42	49	45	
	Females.....	445	25	36	41	33	33	33	38	38	46	43	36	42	1
	Unknown.....	2							1		1				
St. Joseph	Total.....	475	38	30	40	42	38	34	41	41	48	37	40	46	
	Males.....	240	23	17	26	18	19	16	20	23	24	14	20	20	
	Females.....	235	15	13	14	24	19	18	21	18	24	23	20	26	
	Unknown.....														
Tuscola	Total.....	710	47	54	52	59	60	64	63	57	54	72	70	58	
	Males.....	361	23	30	19	31	33	33	31	31	32	40	37	21	
	Females.....	349	24	24	33	28	27	31	32	26	22	32	33	37	
	Unknown.....														
Van Buren	Total.....	475	28	29	36	26	51	36	38	37	50	49	55	40	
	Males.....	254	16	17	17	14	28	19	20	18	30	24	27	24	
	Females.....	220	12	12	19	12	23	17	18	19	20	25	28	15	
	Unknown.....	1												1	
Washtenaw	Total.....	598	39	35	37	53	54	35	42	64	68	60	71	40	
	Males.....	300	22	22	18	27	19	16	22	35	31	29	39	20	
	Females.....	296	16	13	19	26	35	19	20	29	37	31	31	20	
	Unknown.....	2	1										1		
Wayne	Total.....	5,099	433	409	501	391	365	302	348	404	472	476	457	541	
	Males.....	2,703	232	208	280	209	203	156	164	221	268	238	248	276	
	Females.....	2,394	201	201	221	182	161	146	184	183	204	238	209	264	
	Unknown.....	2					1							1	
Wexford	Total.....	240	18	12	20	22	30	15	26	22	16	15	17	27	
	Males.....	116	6	8	10	13	14	11	11	9	7	7	7	13	
	Females.....	124	12	4	10	9	16	4	15	13	9	8	10	14	
	Unknown.....														



Table V. shows the number of inhabitants, the birth-rate, and the proportion of the sexes among the different races of people in Michigan. Only the population of counties and townships represented by returns of births are employed, and comparing the number of inhabitants in 1880 with the births in 1882, it seems that the birth-rate is about the same for the Whites as the average for all colors, and less than the average among the Black, Mulatto, and Indian races. This was also true for the year 1881. The birth-rate among the Black and Mulatto inhabitants is much smaller than the average for all colors, and smaller than among the Indians.

The proportion of the sexes for each color shows an excess of males for each race except the Mulatto, the largest excess of males being for the Indians. There appears an excess of female children among the Mulatto race when studied separately, but when united with the Black the males predominate.

Table VI. shows, for Michigan, the number of births in 1882 and the number of inhabitants in 1880, by county and by sex. The number of births in 1882 was 2.27 per cent of the number of inhabitants in 1880, the number of male births in 1882 was 2.23 per cent of the male inhabitants, and the number of female births was 2.30 per cent of the female inhabitants. The birth-rate for the year 1882 is 14 per cent greater than in 1881, and 10 per cent greater than in 1880. By this table we are enabled to compare the birth-rate in each county in 1882 with the rate for the entire State, and also to note the difference in the birth-rates of the various counties. Some allowance must be made for defective registration, which is probably greater in some counties than in others. The counties showing the highest birth-rates for the year 1882, according to the returns, are Alpena, Bay, Charlevoix, Crawford, Houghton, Keweenaw, Manistee, Marquette, Missaukee, and Presque Isle, while the counties of Branch, Lenawee, Oakland, and Washtenaw show a rate considerably less, in any year, or in a series of years, than that of the State at large. An explanation of this difference may, perhaps, be in the fact that many of the former counties contain manufacturing and mining centers, which attract the productive class of the population, while the latter counties are more rural sections and contain a less prolific people, the young men and women being attracted from the country into the cities.

In Table VI. may also be seen, by counties, the number of children born among the White, Black, Mulatto, and Indian races. The largest number of Black and Mulatto births is returned from the counties of Wayne and Cass, and the largest number of Indians is returned from Emmet county. Only two births were returned for 1882 without the statement of the color of the children being given, one in Allegan county and one in Chippewa. This is the best showing we have ever had in this State.

**TABLE V.**—*Exhibiting, by Color and by Sex, the Number of Inhabitants of Michigan June 1, 1880, the Number of Children returned as having been born in the State during the Year 1882, the Per Cent of Children born in 1882 to Inhabitants in 1880, the Per Cent of Children of each Sex to the Total Number of both Sexes, and the Number of Inhabitants to each Child born of the same color. (Still-births included.)*

RACE OR COLOR.	SEX.	Population June 1, 1880, Represented by Births in 1882.	Children Born in 1882.	Per Cent of Births of each Color to Total of all Col- ors, by Sex.	Per Cent of Children born to Inhabit- ants.	Per Cent of each Sex to Children of Both Sexes.	Inhabit- ants to one Child born, by Color and Sex.
All Colors .....	Total .....	* 1,633,352	37,026	100.00	2.27	-----	44.11
	Males .....	860,179	19,179	100.00	2.23	51.88	44.85
	Females...	773,173	17,787	100.00	2.30	48.12	43.47
	Unknown..	-----	60	100.00	-----	-----	-----
White .....	Total .....	1,611,410	36,667	99.03	2.28	-----	43.95
	Males .....	-----	18,974	98.93	-----	51.83	-----
	Females...	-----	17,634	99.14	-----	48.17	-----
	Unknown..	-----	59	98.33	-----	-----	-----
Black .....	Total .....	-----	133	.36	-----	-----	-----
	Males .....	-----	81	.42	-----	60.90	-----
	Females...	-----	52	.29	-----	39.10	-----
Mulatto .....	Total .....	-----	106	.29	-----	-----	-----
	Males .....	-----	50	.26	-----	47.17	-----
	Females...	-----	56	.31	-----	52.83	-----
Indian .....	Total .....	6,827	118	.32	1.73	-----	57.86
	Males .....	-----	73	.38	-----	61.86	-----
	Females...	-----	45	.25	-----	38.14	-----
Unknown color .....	Total .....	-----	2	-----	-----	-----	-----
	Males .....	-----	1	-----	-----	-----	-----
	Females...	-----	-----	-----	-----	-----	-----
	Unknown..	-----	1	1.67	-----	-----	-----
Black and Mulatto .....	Total .....	15,087	239	.65	1.58	-----	63.13
	Males .....	-----	131	.68	-----	54.81	-----
	Females...	-----	108	.61	-----	45.19	-----

\* Includes 28 Asiatics.



TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Mecosta.....	Total.....	405	26	31	35	49	24	36	36	40	37	40	21	30	---
	Males.....	218	8	19	17	27	13	23	21	16	21	23	14	16	---
	Females.....	187	18	12	18	22	11	13	15	24	16	17	7	14	---
Menominee.....	Total.....	254	21	16	18	23	15	14	22	24	26	17	30	28	---
	Males.....	122	7	8	5	11	6	9	13	13	10	11	13	16	---
	Females.....	129	14	8	13	12	9	5	9	11	16	6	14	12	---
	Unknown.....	3	---	---	---	---	---	---	---	---	---	3	---	---	
Midland.....	Total.....	135	4	11	14	10	12	16	7	14	11	14	11	11	---
	Males.....	64	---	8	7	3	6	7	2	11	3	6	6	5	---
	Females.....	71	4	3	7	7	6	9	5	3	8	8	5	6	---
Missaukee.....	Total.....	62	1	3	4	11	3	4	7	10	5	6	5	3	---
	Males.....	27	1	2	---	6	1	2	2	3	2	3	2	3	---
	Females.....	33	---	---	4	5	2	1	5	7	2	3	3	---	---
	Unknown.....	3	---	1	---	---	---	1	---	1	---	---	---	---	
Monroe.....	Total.....	776	40	61	57	64	58	65	60	75	63	74	78	81	---
	Males.....	424	28	28	29	33	32	41	33	44	32	40	37	48	---
	Females.....	352	12	33	28	31	26	24	28	31	31	34	41	33	---
Montcalm.....	Total.....	632	47	32	53	51	44	44	54	73	67	50	56	61	---
	Males.....	324	23	15	28	24	19	22	24	42	30	31	32	34	---
	Females.....	307	24	17	25	27	24	22	30	31	37	19	24	27	---
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---	
Montmorency.....	Total.....	13	1	2	1	1	---	1	3	---	---	3	1	---	---
	Males.....	9	1	---	1	---	---	---	3	---	---	3	1	---	---
	Females.....	4	---	2	---	1	---	1	---	---	---	---	---	---	---
Muskegon.....	Total.....	888	76	56	72	53	69	71	60	81	88	82	83	88	---
	Males.....	444	41	27	38	29	32	38	34	36	42	45	38	44	---
	Females.....	443	35	29	34	24	37	32	35	45	46	37	45	44	---
	Unknown.....	1	---	---	---	---	1	---	---	---	---	---	---	---	
Newaygo.....	Total.....	288	10	24	28	26	32	17	25	32	35	16	22	20	1
	Males.....	145	6	13	16	13	15	7	13	18	13	8	15	8	---
	Females.....	143	4	11	12	13	17	10	12	14	22	8	7	12	1
Oakland.....	Total.....	570	43	28	34	42	35	39	63	65	73	51	43	46	---
	Males.....	292	19	13	15	23	17	18	31	38	38	30	29	21	---
	Females.....	275	23	15	19	19	18	21	30	37	34	21	23	25	---
	Unknown.....	3	1	---	---	---	---	1	---	---	---	1	---	---	

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Oceana.....	Total.....	283	11	13	34	28	25	15	26	31	29	24	23	24
	Males.....	137	5	6	16	18	12	5	13	14	14	16	8	10
	Females.....	146	6	7	18	10	13	10	13	17	15	8	15	14
Ogemaw.....	Total.....	50	1	3	...	5	2	6	6	5	7	2	7	6
	Males.....	23	1	1	...	3	1	1	4	3	1	1	4	3
	Females.....	27	...	2	...	2	1	5	2	2	6	1	3	3
Ontonagon.....	Total.....	76	4	4	3	6	8	5	8	7	10	9	5	7
	Males.....	46	3	4	1	2	6	3	6	3	6	5	2	5
	Females.....	30	1	...	2	4	2	2	2	4	4	4	3	2
Osceola.....	Total.....	311	16	17	21	27	33	29	36	25	28	33	24	22
	Males.....	170	8	11	11	13	13	16	21	15	17	18	12	15
	Females.....	141	8	6	10	14	20	13	15	10	11	15	12	7
Oscoda.....	Total.....	14	...	1	...	1	2	...	1	5	1	2	...	1
	Males.....	6	...	1	...	...	1	...	1	2	...	1	...	...
	Females.....	8	...	...	...	1	1	...	...	3	1	1	...	1
Otsego.....	Total.....	44	2	...	1	1	4	5	1	6	5	7	8	4
	Males.....	23	...	...	...	1	2	4	...	4	3	4	3	2
	Females.....	21	2	...	1	...	2	1	1	2	2	3	5	2
Ottawa.....	Total.....	888	65	82	85	75	70	64	79	74	73	73	74	73
	Males.....	449	29	42	44	36	38	34	41	38	40	37	31	39
	Females.....	433	36	40	41	39	32	29	38	34	32	36	43	33
	Unknown.....	6	...	...	...	...	...	1	...	2	1	...	...	1
Presque Isle.....	Total.....	143	3	9	16	16	13	14	7	9	9	18	16	13
	Males.....	84	...	7	7	10	6	11	5	5	4	10	11	8
	Females.....	59	3	2	9	6	7	3	2	4	5	8	5	5
Roscommon.....	Total.....	26	...	...	5	4	1	3	4	5	2	1	...	1
	Males.....	17	...	...	3	1	...	3	3	3	2	1	...	1
	Females.....	9	...	...	2	3	1	...	1	2	...	...	...	...
Saginaw.....	Total.....	1,613	116	124	134	131	137	131	161	132	132	135	131	149
	Males.....	855	68	70	71	65	76	62	99	67	69	72	63	73
	Females.....	757	48	54	63	66	61	69	62	65	63	63	68	75
	Unknown.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Sanilac.....	Total.....	740	44	38	70	78	60	51	61	62	73	76	59	68
	Males.....	400	27	20	36	51	31	19	30	30	39	42	37	38
	Females.....	340	17	18	34	27	29	32	31	32	34	34	22	30

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Schoolcraft	Total.....	44	4	1	3	3	5	4	6	2	4	4	3	4	1
	Males.....	20			2	1	2	2	4	1	2	3	1	2	
	Females.....	23	4	1	1	2	3	2	2	1	2	1	2	2	
	Unknown.....	1													1
Shiawassee	Total.....	425	16	28	28	29	36	39	32	36	40	41	44	55	1
	Males.....	219	12	13	15	15	17	19	9	20	22	23	21	34	
	Females.....	205	4	15	13	14	19	20	23	16	18	18	23	21	1
	Unknown.....	1		1											
St. Clair	Total.....	907	59	69	76	62	59	69	74	91	90	85	85	87	1
	Males.....	460	34	33	35	29	26	36	35	53	43	42	49	45	
	Females.....	445	25	36	41	33	33	33	38	38	46	43	36	42	1
	Unknown.....	2							1		1				
St. Joseph	Total.....	475	38	30	40	42	38	34	41	41	48	37	40	46	
	Males.....	240	23	17	26	18	19	16	20	23	24	14	20	20	
	Females.....	235	15	13	14	24	19	18	21	18	24	23	20	26	
Tuscola	Total.....	710	47	54	52	59	60	64	63	57	54	72	70	58	
	Males.....	361	23	30	19	31	33	33	31	31	32	40	37	21	
	Females.....	349	24	24	33	28	27	31	32	26	22	32	33	37	
Van Buren	Total.....	475	28	29	36	26	51	36	38	37	50	49	55	40	
	Males.....	254	16	17	17	14	28	19	20	18	30	24	27	24	
	Females.....	220	12	12	19	12	23	17	18	19	20	25	28	15	
	Unknown.....	1												1	
Washtenaw	Total.....	598	39	35	37	53	54	35	42	64	68	60	71	40	
	Males.....	300	22	22	18	27	19	16	22	35	31	29	39	20	
	Females.....	296	16	13	19	26	35	19	20	29	37	31	31	20	
	Unknown.....	2	1										1		
Wayne	Total.....	5,099	433	409	501	391	365	302	348	404	472	476	457	541	
	Males.....	2,703	232	208	260	209	203	156	164	221	268	238	248	276	
	Females.....	2,394	201	201	221	182	161	146	184	183	204	238	209	264	
	Unknown.....	2					1							1	
Wexford	Total.....	240	18	12	20	22	30	15	26	22	16	15	17	27	
	Males.....	116	6	8	10	13	14	11	11	9	7	7	7	13	
	Females.....	124	12	4	10	9	16	4	15	13	9	8	10	14	



TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Births,— Males to 100 Females.	SEX.	Per Ct. of Births of each Sex to Total of both Sexes.	Popula- tion in 1880 Repre- sented by Births in 1882.	Per Ct. of Births of each Sex to Popula- tion of same Sex.	COLOR,—CHILDREN IN 1882.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
Leelanaw...	118	Total.....	-----	6,253	2.48	155	147	-----	-----	8	-----
		Males.....	54.19	3,388	2.48	84	78	-----	-----	6	-----
		Females..	45.81	2,865	2.48	71	69	-----	-----	2	-----
Lenawee....	99	Total.....	-----	48,343	1.35	652	646	4	2	-----	-----
		Males.....	49.69	24,281	1.33	324	321	2	1	-----	-----
		Females..	50.31	24,062	1.36	328	325	2	1	-----	-----
Livingston..	109	Total.....	-----	22,251	1.56	347	347	-----	-----	-----	-----
		Males.....	52.17	11,620	1.55	180	180	-----	-----	-----	-----
		Females..	47.83	10,631	1.55	165	165	-----	-----	-----	-----
		Unknown	-----	-----	-----	2	2	-----	-----	-----	-----
Mackinac...	217	Total.....	-----	1,558	1.22	19	16	-----	-----	3	-----
		Males.....	68.42	913	1.42	13	11	-----	-----	2	-----
		Females..	31.58	645	.93	6	5	-----	-----	1	-----
Macomb.....	93	Total.....	-----	31,627	2.10	665	665	-----	-----	-----	-----
		Males.....	48.12	16,157	1.98	320	320	-----	-----	-----	-----
		Females..	51.88	15,470	2.23	345	345	-----	-----	-----	-----
Manistee....	111	Total.....	-----	12,532	4.32	542	542	-----	-----	-----	-----
		Males.....	52.50	6,969	4.08	284	284	-----	-----	-----	-----
		Females..	47.50	5,563	4.62	257	257	-----	-----	-----	-----
		Unknown	-----	-----	-----	1	1	-----	-----	-----	-----
Manitou....	115	Total.....	-----	1,334	2.10	28	28	-----	-----	-----	-----
		Males.....	53.57	718	2.09	15	15	-----	-----	-----	-----
		Females..	46.43	616	2.11	13	13	-----	-----	-----	-----
Marquette..	104	Total.....	-----	25,394	3.99	1,014	1,014	-----	-----	-----	-----
		Males.....	50.94	14,760	3.49	515	515	-----	-----	-----	-----
		Females..	49.06	10,634	4.66	496	496	-----	-----	-----	-----
		Unknown	-----	-----	-----	3	3	-----	-----	-----	-----
Mason.....	92	Total.....	-----	9,076	2.23	202	200	-----	-----	2	-----
		Males.....	48.00	5,028	1.91	96	95	-----	-----	1	-----
		Females..	52.00	4,048	2.57	104	103	-----	-----	1	-----
		Unknown	-----	-----	-----	2	2	-----	-----	-----	-----
Mecosta.....	117	Total.....	-----	13,973	2.90	405	399	-----	6	-----	-----
		Males.....	53.83	7,626	2.86	218	216	-----	2	-----	-----
		Females..	46.17	6,347	2.95	187	183	-----	4	-----	-----

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Births,— Males to 100 Females.	SEX.	Per Ct. of Births of each Sex to Total of both Sexes.	Popula- tion in 1890 Repre- sented by Births in 1889.	Per Ct. of Births of each Sex to Popula- tion of same Sex.	COLOR,—CHILDREN IN 1889.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
Menominee.	95	Total.....	.....	11,563	2.20	254	253	.....	.....	1	.....
		Males.....	52.69	7,710	1.58	122	122	.....	.....	.....	.....
		Females..	47.41	3,853	3.35	129	128	.....	.....	1	.....
		Unknown.....	.....	.....	.....	3	3	.....	.....	.....	.....
Midland.....	90	Total.....	.....	6,893	1.96	135	135	.....	.....	.....	.....
		Males.....	47.41	3,780	1.69	64	64	.....	.....	.....	.....
		Females..	52.59	3,113	2.28	71	71	.....	.....	.....	.....
Missaukee...	84	Total.....	.....	1,553	3.99	63	63	.....	.....	.....	.....
		Males.....	45.76	942	2.87	27	27	.....	.....	.....	.....
		Females..	54.24	611	5.24	33	33	.....	.....	.....	.....
		Unknown.....	.....	.....	.....	3	3	.....	.....	.....	.....
Monroe.....	120	Total.....	.....	33,624	2.31	776	774	.....	2	.....	.....
		Males.....	54.64	17,250	2.46	424	423	.....	2	.....	.....
		Females..	45.36	16,374	2.15	352	352	.....	.....	.....	.....
Montcalm...	106	Total.....	.....	33,148	1.91	632	629	.....	3	.....	.....
		Males.....	51.35	18,321	1.77	324	323	.....	1	.....	.....
		Females..	48.65	14,827	2.07	307	305	.....	2	.....	.....
		Unknown.....	.....	.....	.....	1	1	.....	.....	.....	.....
Montmorency	225	Total.....	.....	.....	.....	13	13	.....	.....	.....	.....
		Males.....	60.23	.....	.....	9	9	.....	.....	.....	.....
		Females..	39.77	.....	.....	4	4	.....	.....	.....	.....
Muskegon...	100	Total.....	.....	26,586	3.34	898	896	2	.....	.....	.....
		Males.....	50.06	14,784	3.00	444	443	1	.....	.....	.....
		Females..	49.94	11,802	3.77	443	442	1	.....	.....	.....
		Unknown.....	.....	.....	.....	1	1	.....	.....	.....	.....
Newaygo...	101	Total.....	.....	14,688	1.96	238	238	.....	.....	.....	.....
		Males.....	50.34	8,376	1.73	145	145	.....	.....	.....	.....
		Females..	49.66	6,312	2.27	143	143	.....	.....	.....	.....
Oakland.....	106	Total.....	.....	41,537	1.37	570	568	1	1	.....	.....
		Males.....	51.50	21,327	1.37	292	291	.....	1	.....	.....
		Females..	48.50	20,210	1.36	275	274	1	.....	.....	.....
		Unknown.....	.....	.....	.....	3	3	.....	.....	.....	.....
Oceana.....	94	Total.....	.....	11,699	2.42	283	278	1	.....	4	.....
		Males.....	48.41	6,444	2.13	137	134	1	.....	2	.....
		Females..	51.59	5,255	2.78	146	144	.....	.....	2	.....

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Births,— Males to 100 Females.	SEX.	Per Ct. of Births of each Sex to Total of both Sexes.	Popula- tion in 1880 Repre- sented by Births in 1882.	Per Ct. of Births of each Sex to Popula- tion of same Sex.	COLOR,—CHILDREN IN 1882.				
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.
Ogemaw	85	Total		1,914	2.61	50	50			
		Males	46.00	1,168	1.97	23	23			
		Females	54.00	746	3.62	27	27			
Ontonagon	153	Total		2,565	2.96	76	76			
		Males	60.53	1,335	3.45	46	46			
		Females	39.47	1,230	2.44	30	30			
Osceola	121	Total		10,777	2.89	311	310		1	
		Males	54.66	6,015	2.83	170	169		1	
		Females	45.34	4,762	2.96	141	141			
Oscoda	75	Total		467	3.00	14	13	1		
		Males	42.86	291	2.06	6	5	1		
		Females	57.14	176	4.55	8	8			
Otsego	110	Total		1,974	2.23	44	44			
		Males	52.27	1,137	2.02	23	23			
		Females	47.73	837	2.51	21	21			
Ottawa	104	Total		33,126	2.68	888	887	1		
		Males	50.91	17,472	2.57	449	448	1		
		Females	49.09	15,654	2.77	433	433			
		Unknown				6	6			
Presque Isle	142	Total		3,113	4.59	143	143			
		Males	58.74	1,701	4.94	84	84			
		Females	41.26	1,412	4.18	59	59			
Roscommon	189	Total		1,459	1.78	26	26			
		Males	65.38	1,066	1.55	17	17			
		Females	34.62	383	2.48	9	9			
Saginaw	113	Total		59,065	2.73	1,613	1,607	2	1	3
		Males	53.04	31,803	2.69	855	853		1	1
		Females	46.96	27,292	2.77	757	753	2		2
		Unknown				1	1			
Sanilac	118	Total		26,341	2.81	740	740			
		Males	54.05	14,023	2.85	400	400			
		Females	45.95	12,318	2.76	340	340			
Schoolcraft	87	Total		1,305	3.37	44	44			
		Males	46.51	923	2.17	20	20			
		Females	53.49	382	6.02	23	23			
		Unknown				1	1			

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Births,— Males to 100 Females.	SEX.	Per Ct. of Births of each Sex to Total of both Sexes.	Popula- tion in 1880 Repre- sented by Births in 1882.	Per Ct. of Births of each Sex to Popula- tion of same Sex.	COLOR.—CHILDREN IN 1882.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
Shiawassee.	107	Total.....		27,069	1.57	425	425				
		Males.....	51.65	14,248	1.54	219	219				
		Females..	48.35	12,811	1.60	205	205				
		Unknown.....				1	1				
St. Clair.....	103	Total.....		46,197	1.96	907	905	2			
		Males.....	50.83	23,923	1.92	480	459	1			
		Females..	49.17	22,275	2.00	445	444	1			
		Unknown.....				2	2				
St. Joseph....	102	Total.....		26,626	1.78	475	472		3		
		Males.....	50.53	13,516	1.78	240	239		1		
		Females..	49.47	13,110	1.79	235	233		2		
Tuscola.....	103	Total.....		25,738	2.76	710	706		2	2	
		Males.....	50.85	13,644	2.65	361	359		2		
		Females..	49.15	12,094	2.89	349	347			2	
Van Buren..	115	Total.....		30,807	1.54	475	464	5	4	2	
		Males.....	53.59	15,757	1.61	254	249	4		1	
		Females..	46.41	15,050	1.46	220	214	1	4	1	
		Unknown.....				1	1				
Washtenaw.	101	Total.....		41,848	1.43	598	579	16	3		
		Males.....	50.34	21,250	1.41	300	290	9	1		
		Females..	49.66	20,598	1.44	296	287	7	2		
		Unknown.....				2	2				
Wayne.....	113	Total.....		166,444	3.06	5,099	5,031	43	25		
		Males.....	53.03	82,917	3.26	2,703	2,661	31	11		
		Females..	46.97	83,527	2.87	2,394	2,368	12	14		
		Unknown.....				2	2				
Wexford.....	93	Total.....		6,815	3.52	240	239		1		
		Males.....	48.33	3,903	2.97	116	116				
		Females..	51.67	2,912	4.26	124	123		1		

TABLE VII.—*Exhibiting, by Sex, by Number, and by Per Cent of Total, the Parent-Nativity of Children Born in Michigan during the Year 1882, according to the Returns.*

NATIVITY OF PARENTS OF CHILDREN BORN, 1882.	TOTAL BIRTHS,—1882.							
	NUMBER.				PER CENT OF TOTAL.			
	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.
All Nativities .....	37,026	19,179	17,787	60	100.00	100.00	100.00	100.00
Both Parents Native-born.....	16,169	8,382	7,769	18	43.67	43.70	43.68	30.00
Both Parents Foreign-born.....	13,173	6,877	6,278	18	35.58	35.86	35.29	30.00
Foreign Father and Native Mother	4,337	2,210	2,143	4	11.77	11.52	12.05	6.67
Foreign Mother and Native Father	2,213	1,131	1,078	4	5.98	5.90	6.06	6.67
Unknown Mother, Father Native..	202	110	90	2	.55	.57	.51	3.33
Unknown Mother, Father Foreign.	88	42	45	1	.24	.22	.25	1.67
Unknown Father, Mother Native..	206	94	110	2	.55	.49	.62	3.33
Unknown Father, Mother Foreign.	75	31	44	-----	.20	.16	.25	-----
Both Unknown.....	543	302	230	11	1.47	1.58	1.29	18.33
One or Both Native.....	23,147	11,927	11,190	30	62.52	62.19	62.91	50.00
One or Both Foreign.....	19,906	10,291	9,588	27	53.76	53.66	53.90	45.00

## PARENT-NATIVITY.

Table VII. shows the number and proportion of births in Michigan in 1882, by sex and parent-nativity. It will be seen that the number of children born of native-born parents was 43.67 per cent of the whole number, while the per cent of births of purely foreign parentage was 35.58 of the whole number. This indicates a decrease of 2.11 per cent from the percentage of native-born parents in 1881, and a decrease of 2.40 per cent from the percentage in 1880. It also indicates an increase of 2.31 per cent over the percentage of foreign-born parents in 1881, and an increase of 1.66 per cent over the percentage in 1880. The average per cent of children who were born of native-born parents for the fourteen years 1869-1882 is 45.59, and the average per cent of children born of foreign-born parents for the same period of years is 33.78 per cent.

When a comparison is made between native and foreign parents, it should be remembered that the term "Native" is less definite than the term "Foreign" because the former class includes all who were born in the United States, and must, therefore, comprise a considerable number whose parents were foreign-born.

In Exhibit F may be seen the parent-nativity of children born in Michigan for each of the years 1875-1882. While the proportion of children of native-born parents for the year 1882 is less than usual, and 1.92 per cent less than the average for fourteen years; in the foreign and in both classes of mixed parentage the percentage for 1882 is larger than the average for fourteen years. The percentage of children with "Foreign Father and Native Mother" is about double that of the opposite class, and has increased almost constantly from 1869 to 1882, inclusive. The proportion of births whose parent-nativity was not stated in the returns is less in 1882 than in 1881.



EXHIBIT F.—Parent-Nativity of Children returned as having been Born in Michigan during each of the Years 1875 to 1882, inclusive.

NATIVITY OF PARENTS OF CHILDREN BORN.	1875.		1876.		1877.		1878.		1879.		1880.		1881.		1882.	
	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.	Num. ber.	Per Cent of Total.
All Nativities.....	31,958	100.00	34,235	100.00	33,395	100.00	35,162	100.00	34,122	100.00	35,323	100.00	34,749	100.00	37,025	100.00
Both Native-born.....	14,226	44.51	15,531	45.42	15,270	45.73	16,323	46.42	15,864	46.49	16,274	46.07	15,907	45.78	16,109	43.67
Both Foreign-born.....	11,120	34.80	11,901	34.76	11,557	34.61	11,492	34.10	11,369	33.32	11,982	33.92	11,560	33.27	13,173	35.58
Foreign Father and Native Mother.....	3,246	10.16	3,587	10.48	3,635	10.88	3,851	10.98	3,956	11.59	3,967	11.23	4,078	11.74	4,357	11.77
Foreign Mother and Native Father.....	1,727	5.40	1,868	5.46	1,948	5.83	1,956	5.56	2,039	5.98	2,058	5.83	2,075	5.97	2,213	5.97
One or Both Unknown.....	1,639	5.13	1,328	3.88	985	2.95	1,030	2.93	884	2.62	1,042	2.95	1,129	3.25	1,114	3.01
One or Both Parents Native.....*	19,199	60.08	21,006	61.36	20,833	62.44	22,140	62.97	21,859	64.06	22,659	64.07	22,060	63.48	23,739	64.41
One or Both Parents Foreign.....*	16,093	50.36	17,356	50.70	17,140	51.33	17,809	50.65	17,364	50.89	18,150	51.38	17,713	50.97	19,743	53.35
Father.....	16,309	51.03	17,703	51.71	17,392	52.08	18,489	52.58	18,045	52.88	18,468	52.28	18,170	52.29	18,584	50.19
{ Native.....																
{ Foreign.....	14,812	46.35	15,721	45.92	15,318	45.85	15,981	45.45	15,397	45.12	16,017	45.34	15,803	45.48	17,618	47.58
{ Unknown.....	837	2.62	811	2.37	690	2.07	692	1.97	680	1.99	888	2.37	776	2.23	824	2.23
Mother.....	17,686	55.34	19,347	56.31	19,698	57.19	20,389	57.99	20,024	58.68	20,436	57.55	20,225	58.20	20,732	55.99
{ Native.....																
{ Foreign.....	12,961	40.56	13,853	40.46	13,599	40.72	14,032	39.91	13,492	39.54	14,115	39.96	13,765	39.61	15,461	41.76
{ Unknown.....	1,311	4.10	1,035	3.02	698	2.09	741	2.11	606	1.78	772	2.19	739	2.18	835	2.25

\* Excluding cases where nativity of either parent is unknown.



In Table VIII. may be seen the nativity of the parents of children born in Michigan in each county of the State during the year 1882. The number of births, the nativity of whose parents was not stated, was 543, of which Jackson county has 20, Saginaw 72, and Wayne 186.

TABLE VIII.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1882, and the Parent-Nativity of such Children, so far as stated in the Returns. (Still-births included.)*

STATE AND COUNTIES.	SEX.	Children Born, 1882.	NATIVITY OF PARENTS OF CHILDREN BORN,—1882.								Both Unknown.
			Both Native- born.	Both Foreign- born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
State	Total.....	37,026	16,169	13,173	4,357	2,213	202	88	206	75	543
	Males.....	19,179	8,382	6,877	2,210	1,131	110	42	94	31	302
	Females...	17,787	7,769	6,278	2,143	1,078	90	45	110	44	230
	Unknown..	60	18	18	4	4	2	1	2	-----	11
Alcona.....	Total.....	17	2	11	3	1	-----	-----	-----	-----	-----
	Males.....	10	2	8	-----	-----	-----	-----	-----	-----	-----
	Females...	7	-----	3	3	1	-----	-----	-----	-----	-----
Allegan.....	Total.....	777	490	150	94	34	1	-----	5	1	2
	Males.....	365	235	69	42	16	1	-----	1	-----	1
	Females...	410	255	80	52	18	-----	-----	4	1	-----
	Unknown..	2	-----	1	-----	-----	-----	-----	-----	-----	1
Alpena.....	Total.....	352	42	258	32	20	-----	-----	-----	-----	-----
	Males.....	169	16	126	18	9	-----	-----	-----	-----	-----
	Females...	182	25	132	14	11	-----	-----	-----	-----	-----
	Unknown..	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Antrim.....	Total.....	146	67	48	21	7	-----	-----	2	-----	1
	Males.....	76	33	23	12	5	-----	-----	2	-----	1
	Females...	70	34	25	9	2	-----	-----	-----	-----	-----
Baraga.....	Total.....	63	26	29	6	2	-----	-----	-----	-----	-----
	Males.....	30	11	15	2	2	-----	-----	-----	-----	-----
	Females...	33	15	14	4	-----	-----	-----	-----	-----	-----
Barry.....	Total.....	430	338	27	45	13	1	2	3	-----	1
	Males.....	215	168	15	23	7	-----	1	1	-----	-----
	Females...	215	170	12	22	6	1	1	2	-----	1

\* For counties and townships from which no returns were received, see Table xxi.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

		NATIVITY OF PARENTS OF CHILDREN BORN,—1882.									
COUNTIES.	SEX.	Children Born, 1882.			Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
			Both Native- Born.	Both Foreign- Born.			Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Bay	Total	1,510	314	845	210	135	1				5
	Males	818	162	472	104	78	1				1
	Females	692	152	373	106	57					4
Benzie	Total	103	53	23	13	4	3	3	2		2
	Males	49	24	12	6	2	2		1		2
	Females	54	29	11	7	2	1	3	1		
Berrien	Total	664	443	96	63	17	11	8	6		20
	Males	362	244	51	35	13	6	2	2		9
	Females	297	198	43	28	4	5	6	4		9
	Unknown	5	1	2							2
Branch	Total	400	322	45	18	11	2		1		1
	Males	217	177	23	9	5	2		1		
	Females	183	145	22	9	6					1
Calhoun	Total	571	422	63	50	24	2	4	5		1
	Males	309	222	38	31	13	1	2	2		
	Females	262	200	25	19	11	1	2	3		1
Cass	Total	378	314	16	25	10	2		5		6
	Males	182	148	9	16	4			1		4
	Females	196	166	7	9	6	2		4		2
Charlevoix	Total	187	80	51	27	17	1	2	3		6
	Males	104	45	34	12	7	1				5
	Females	80	33	17	14	10		2	3		1
	Unknown	3	2		1						
Cheboygan	Total	232	61	105	39	22	1		1		3
	Males	116	32	51	18	12			1		2
	Females	116	29	54	21	10	1				1
Chippewa	Total	126	64	37	11	6			3	2	3
	Males	63	31	18	4	4			2	1	3
	Females	63	33	19	7	2			1	1	
Clare	Total	101	52	24	8	11	1	2			3
	Males	56	26	10	7	8	1	1			3
	Females	42	24	13	1	3		1			
	Unknown	3	2	1							
Clinton	Total	443	285	56	70	14	7	2	5		4
	Males	224	142	28	35	8	4	1	3		3
	Females	219	143	28	35	6	3	1	2		1

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

NATIVITY OF PARENTS OF CHILDREN BORN,—1892.											
COUNTIES.	SEX.	Children Born, 1892.	Both Native- Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Crawford	Total.....	43	25	8	1	2			1		6
	Males.....	23	12	6		2					3
	Females...	19	13	2					1		3
	Unknown..	1			1						
Delta	Total.....	141	29	88	14	6		2	1		1
	Males.....	64	12	42	6	1		2	1		
	Females...	77	17	46	8	5					1
Eaton	Total.....	476	412	15	25	10	8	2	1		3
	Males.....	256	221	7	16	3	6		1		2
	Females...	219	191	8	9	7	2	2			
	Unknown..	1									1
Emmet	Total.....	142	87	18	18	12	4		2	1	
	Males.....	74	46	9	11	5			2	1	
	Females...	68	41	9	7	7	4				
Genesee	Total.....	668	422	89	92	61			3		1
	Males.....	347	215	46	48	36			1		1
	Females...	321	207	43	44	25			2		
Gladwin	Total.....	17	7	5	1	3		1			
	Males.....	8	4	3		1					
	Females...	8	3	2	1	2					
	Unknown..	1						1			
Gd. Traverse	Total.....	107	64	19	17	6					1
	Males.....	51	33	5	9	3					1
	Females...	56	31	14	8	3					
Gratiot	Total.....	483	375	29	39	32			1		7
	Males.....	244	179	13	24	22			1		5
	Females...	239	196	16	15	10					2
Hillsdale	Total.....	469	413	16	26	9	1		3		1
	Males.....	246	219	7	13	4	1		1		1
	Females...	223	194	9	13	5			2		
Houghton	Total.....	858	62	644	112	34				2	4
	Males.....	459	41	344	57	14					3
	Females...	399	21	309	55	20				2	1
Huron	Total.....	681	83	423	101	51	1	7	2	10	3
	Males.....	362	48	223	48	31		4	1	7	
	Females...	319	35	200	53	20	1	3	1	3	3

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1882.	NATIVITY OF PARENTS OF CHILDREN BORN,—1882.								Both Unknown.
			Both Native- Born.	Both Foreign- Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Ingham	Total.....	565	403	73	53	26	4	-----	2	-----	4
	Males.....	269	195	29	27	13	3	-----	1	-----	5
	Females...	296	208	44	26	13	1	-----	1	-----	3
Ionia	Total.....	545	381	53	71	33	1	3	-----	1	2
	Males.....	316	223	32	38	20	1	1	-----	-----	3
	Females...	229	158	21	33	13	-----	2	-----	1	1
Iosco	Total.....	191	27	112	22	21	-----	2	1	-----	6
	Males.....	109	14	65	13	13	-----	-----	-----	-----	4
	Females...	82	13	47	9	8	-----	2	1	-----	2
Isabella	Total.....	335	192	83	33	19	1	-----	4	1	12
	Males.....	169	93	40	18	10	1	-----	2	-----	5
	Females...	164	89	43	15	9	-----	-----	2	1	5
	Unknown..	2	-----	-----	-----	-----	-----	-----	-----	-----	2
Isle Royal		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Jackson	Total.....	742	457	140	70	48	2	-----	4	1	20
	Males.....	370	225	63	40	26	1	-----	2	1	12
	Females...	370	231	76	30	22	1	-----	2	-----	8
	Unknown..	2	1	1	-----	-----	-----	-----	-----	-----	-----
Kalamazoo	Total.....	550	348	105	55	26	1	1	9	-----	5
	Males.....	253	175	38	24	10	-----	-----	3	-----	3
	Females...	296	173	67	31	16	1	1	6	-----	2
	Unknown..	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Kalkaska	Total.....	77	35	15	11	7	-----	-----	1	-----	8
	Males.....	39	15	10	5	3	-----	-----	-----	-----	6
	Females...	38	20	5	6	4	-----	-----	1	-----	2
Kent	Total.....	1,620	646	628	208	87	28	2	9	3	14
	Males.....	853	352	326	95	47	23	1	5	1	8
	Females...	766	294	302	107	40	5	1	4	2	11
	Unknown..	1	-----	-----	1	-----	-----	-----	-----	-----	-----
Keweenaw	Total.....	289	28	217	37	3	-----	2	2	-----	-----
	Males.....	145	12	109	20	3	-----	1	-----	-----	-----
	Females...	143	15	108	17	-----	-----	1	2	-----	-----
	Unknown..	1	1	-----	-----	-----	-----	-----	-----	-----	-----

\* No returns from county clerk.

		NATIVITY OF PARENTS OF CHILDREN BORN,—1882.									
COUNTIES.	SEX.	Children Born, 1882.	Both Native- Born.	Both Foreign- Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Lake	Total	100	49	26	12	12					1
	Males	53	26	14	8	4					1
	Females	47	23	12	4	8					
Lapeer	Total	619	281	168	95	71		1	1		2
	Males	321	145	89	53	33					1
	Females	297	136	78	42	38		1	1		1
	Unknown	1		1							
Leelanaw	Total	155	48	75	22	9		1			
	Males	84	27	42	12	3					
	Females	71	21	33	10	6		1			
Lenawee	Total	652	437	91	49	26	31	7	7	1	3
	Males	324	215	45	23	17	13	5	4		2
	Females	328	222	46	26	9	18	2	3	1	1
Livingston	Total	347	268	38	34	13	1		2		1
	Males	180	136	14	22	8					
	Females	165	131	14	12	4	1		2		1
	Unknown	2	1			1					
Mackinac	Total	19	10	7	1						1
	Males	13	6	6							1
	Females	6	4	1	1						
Macomb	Total	665	283	200	113	58	8	2	1	1	
	Males	320	137	95	56	26	3	2	1		
	Females	345	145	105	57	32	5			1	
Manistee	Total	542	115	353	48	23			1		2
	Males	284	58	196	18	11					2
	Females	257	57	157	30	12			1		
	Unknown	1		1							
Manitou	Total	28	6	13	8	1					
	Males	15	3	9	2	1					
	Females	13	3	4	6						
Marquette	Total	1,014	98	787	94	29		3	3	6	4
	Males	515	44	415	36	13			1	3	3
	Females	496	44	360	58	16		3	2	3	1
	Unknown	3		3							

**TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.**

		NATIVITY OF PARENTS OF CHILDREN BORN,—1882.									
COUNTIES.	SEX.	Children Born, 1882.					MOTHER UNK.		FATHERS UNK.		Both Unknown.
			Both Native- Born.	Both Foreign- Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father	Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Mason	Total .....	202	73	82	27	12	.....	.....	1	.....	7
	Males .....	96	36	39	10	7	.....	.....	1	.....	3
	Females...	104	36	43	17	5	.....	.....	.....	.....	3
	Unknown..	2	1	.....	.....	.....	.....	.....	.....	.....	1
Mecosta	Total .....	406	191	127	55	25	1	2	1	.....	3
	Males .....	216	103	67	32	13	.....	1	.....	.....	2
	Females...	187	88	60	23	12	1	1	1	.....	1
Menominee	Total .....	254	30	168	44	9	.....	.....	.....	.....	3
	Males .....	122	12	82	23	3	.....	.....	.....	.....	2
	Females...	129	18	83	21	6	.....	.....	.....	.....	1
	Unknown..	3	.....	3	.....	.....	.....	.....	.....	.....	.....
Midland	Total .....	135	62	37	13	14	3	.....	1	.....	5
	Males .....	64	33	16	10	3	1	.....	.....	.....	1
	Females...	71	29	21	3	11	2	.....	1	.....	4
Missaukee	Total .....	62	14	30	14	4	.....	.....	.....	.....	.....
	Males .....	27	7	14	6	.....	.....	.....	.....	.....	.....
	Females...	32	5	15	8	4	.....	.....	.....	.....	.....
	Unknown..	3	2	1	.....	.....	.....	.....	.....	.....	.....
Monroe	Total .....	776	523	111	109	26	.....	.....	4	.....	3
	Males .....	424	283	65	62	11	.....	.....	3	.....	1
	Females...	352	241	46	47	15	.....	.....	1	.....	2
Montcalm	Total .....	632	379	121	75	39	4	.....	4	4	6
	Males .....	324	207	64	30	15	2	.....	1	1	4
	Females...	307	172	57	45	23	2	.....	3	3	2
	Unknown..	1	.....	.....	.....	1	.....	.....	.....	.....	.....
Montmorency	Total .....	13	3	6	2	2	.....	.....	.....	.....	.....
	Males .....	9	2	3	2	2	.....	.....	.....	.....	.....
	Females...	4	1	3	.....	.....	.....	.....	.....	.....	.....
Muskegon	Total .....	888	228	473	104	60	2	4	6	1	10
	Males .....	444	120	232	47	29	1	4	2	.....	9
	Females...	443	108	241	57	31	1	.....	3	1	1
	Unknown..	1	.....	.....	.....	.....	.....	.....	1	.....	.....
Newaygo	Total .....	288	151	62	43	19	.....	.....	3	.....	10
	Males .....	145	81	30	19	12	.....	.....	.....	.....	3
	Females...	143	70	32	24	7	.....	.....	3	.....	7





TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1882.	NATIVITY OF PARENTS OF CHILDREN BORN,—1882.								Both Unknown.
			Both Native- Born.	Both Foreign- Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Milac-----	Total.....	740	80	464	126	63	-----	-----	2	2	3
	Males.....	400	34	254	71	35	-----	-----	2	1	3
	Females...	340	46	210	55	28	-----	-----	-----	1	-----
Hoolcraft--	Total.....	44	15	17	5	3	-----	-----	-----	1	3
	Males.....	20	7	8	3	1	-----	-----	-----	1	-----
	Females...	23	8	9	2	2	-----	-----	-----	-----	2
	Unknown..	1	-----	-----	-----	-----	-----	-----	-----	-----	1
	Total.....	424	287	67	45	19	3	1	-----	-----	2
	Males.....	219	158	30	20	7	2	1	-----	-----	1
Winwassee--	Females...	205	129	37	25	12	1	-----	-----	-----	1
	Unknown..	1	-----	1	-----	-----	-----	-----	-----	-----	-----
	Total.....	907	280	332	160	108	4	2	5	2	5
St. Clair----	Males.....	460	138	184	75	51	2	1	4	-----	5
	Females...	445	141	147	94	57	2	1	1	2	-----
	Unknown..	2	1	1	-----	-----	-----	-----	-----	-----	-----
St. Joseph--	Total.....	475	350	75	27	14	2	-----	1	-----	6
	Males.....	240	166	46	17	5	2	-----	1	-----	3
	Females...	235	184	29	10	9	-----	-----	-----	-----	3
Tuscola-----	Total.....	710	307	206	101	84	2	1	5	-----	4
	Males.....	361	153	110	54	35	1	1	1	-----	1
	Females...	349	149	96	47	49	1	-----	4	-----	3
Van Buren---	Total.....	475	363	24	39	26	6	-----	10	1	6
	Males.....	254	190	19	22	12	4	-----	4	-----	3
	Females...	220	173	5	17	14	2	-----	6	1	3
	Unknown..	1	1	-----	-----	-----	-----	-----	-----	-----	-----
	Total.....	598	314	145	73	43	5	2	4	4	8
	Males.....	300	151	78	34	25	3	1	2	-----	6
Washtenaw--	Females...	296	162	67	39	17	2	1	2	4	2
	Unknown..	2	1	-----	-----	1	-----	-----	-----	-----	-----
	Total.....	5,069	1,302	2,701	547	283	1	5	47	27	166
Wayne-----	Males.....	2,703	721	1,412	292	140	1	2	27	11	97
	Females...	2,364	581	1,289	255	142	-----	3	20	16	88
	Unknown..	2	-----	-----	-----	1	-----	-----	-----	-----	1
Wexford-----	Total.....	240	123	78	23	11	3	2	-----	-----	-----
	Males.....	116	64	38	7	5	1	1	-----	-----	-----
	Females...	124	59	40	16	6	2	1	-----	-----	-----

## TWIN CHILDREN, 1882.

There were 860 twin children returned for the year 1882, of which number 445 were males and 415 were females, or there were 107 males to every 100 females. The number of pairs of twins is 430, which is the largest number ever returned as having been born in this State. The order of the years 1870-1882, those having the largest number of births of twins first, is as follows: 1882, 430; 1876, 428; 1878, 427; 1873, 420; 1874, 408; 1879, 402; 1881, 372; 1875, 370; 1877, 367; 1880, 358; 1872, 342; 1870, 339; 1871, 298. Table IX. shows the number of pairs of twins, and the number of twin children, by months, for the year 1882. The months of October and July head the list with the largest number of twin births, and the months of January and February are at the foot with the smallest number. During the year 1882, one plural birth occurred to every 84 single births.

TABLE IX.—*Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been Born in Michigan during the Year 1882, by Months Arranged in Order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.*

YEAR AND MONTHS, 1882.		NUMBER OF TWIN CHILDREN, 1882.				NUMBER OF PAIRS OF TWINS, 1882.					
		Total.	Males.	Fe- males.	Males to 100 Fe- males.	Total.	Males.	Fe- males.	One of each Sex.	Males to 100 One of each Sex.	Males to 100 Fe- males.
Year, 1882.....		860	445	415	107	430	135	120	175	77	113
More than the Av. No. of Twins.	October.....	102	52	50	104	51	14	13	24	58	108
	July.....	90	52	38	137	45	14	7	24	58	200
	September..	82	37	45	82	41	10	14	17	59	71
	March.....	80	47	33	142	40	16	9	15	107	178
Av. per month.....		72	37	35	106	36	11	10	15	73	110
Less than the Av. No. of Twins.	August.....	70	31	39	80	35	9	13	13	69	69
	April.....	68	34	34	100	34	11	11	12	92	100
	May.....	68	36	32	113	34	10	8	16	63	125
	June.....	64	28	36	78	32	9	13	10	90	69
	November..	64	32	32	100	32	11	11	10	110	100
	December..	60	25	35	71	30	6	11	13	46	55
	January...	56	40	16	250	28	15	3	10	150	500
	February...	56	31	25	124	28	10	7	11	91	143

The parent-nativity of twin births may be studied in Table X., which shows that the largest proportion of pairs of twins was born of parents who were both foreign-born. Comparing this table with Table VII. it will be seen that the proportion of foreign-born parents is greater for twins than for total births, and of native-born parents the proportion is smaller for twins than for all

children born. This fact indicates that more twins are born of foreign parents than of native-born parents, and as this evidence has been the same for a number of years it seems to be conclusive. Again, comparing Tables VII. and XI., it appears that the proportion of mixed parent-nativity was a little greater for all children born than for twins.

The nativity and color of mothers of twin children for each of the years 1880, 1881, and 1882 may be seen in Exhibit 5. The evidence here indicates that the largest proportion of twins is among the foreign-born mothers, and also among the Black and Mulatto mothers.

The parent-nativity of twin children, by counties, may be found in Table XII.

TABLE X.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1882.*

NATIVITY OF PARENTS OF TWINS, 1882.	PAIRS OF TWINS, 1882.							
	NUMBER.				PER CENT OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Fe- males.	One of each	Total.	Males.	Fe- males.	One of each.
All Nativities.....	430	135	120	175	100.00	100.00	100.00	100.00
Both Native-born.....	169	50	47	72	39.30	37.04	39.17	41.14
Both Foreign-born.....	173	56	47	70	40.23	41.48	39.17	40.09
Foreign Father and Native Mother..	49	14	16	19	11.40	10.37	13.33	10.86
Foreign Mother and Native Father..	26	11	8	7	6.04	8.15	6.67	4.00
Unknown Mother, Father Native....	2	1	.....	1	.47	.74	.....	.57
Unknown Mother, Father Foreign..	.....	.....	.....	.....	.....	.....	.....	.....
Unknown Father, Mother Native....	2	.....	1	1	.47	.....	.83	.57
Unknown Father, Mother Foreign..	.....	.....	.....	.....	.....	.....	.....	.....
Both Unknown.....	9	3	1	5	2.09	2.22	.83	2.86
One or Both Native.....	248	76	72	100	57.67	56.29	60.00	57.14
One or Both Foreign.....	248	81	71	96	57.67	60.00	59.17	54.86

EXHIBIT 5.—*By Nativity and by Color of Mothers, the Number and during the Years 1875*

NATIVITY AND COLOR OF MOTHERS OF TWINS, 1875-1882.	1875.			1876.			1877.		
	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.
Mothers of all Colors and all Nativ- ities.....	370	31,586	1.17	428	33,791	1.27	367	33,028	1.11
All Native-born Mothers.....	174	17,510	.99	249	19,086	1.30	207	18,891	1.10
All Foreign-born Mothers.....	184	12,777	1.44	170	13,679	1.24	150	13,449	1.12
Mothers of Unknown Nativities.....	12	1,299	.92	9	1,026	.88	10	688	1.45
White.....	365	31,147	1.17	424	33,273	1.27	360	32,445	1.11
Black.....	1	112	.89	1	139	.72	1	101	.99
Mulatto.....	2	89	2.25		88			87	
Indian.....		136		2	139	1.44	2	128	1.56
Unknown.....	2	102	1.96	1	152	.66	4	267	1.50
Black and Mulatto.....	3	201	1.49	1	227	.44	1	188	.53

*Proportion of Twin Births Returned as having occurred in Michigan to 1882, inclusive.*

1878.			1879.			1880.			1881.			1882.		
No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Ct. of Births of Twins to all Mothers.
427	34,729	1.23	402	33,716	1.19	358	34,953	1.02	372	34,367	1.08	430	36,578	1.18
242	20,143	1.20	274	19,777	1.25	205	20,223	1.01	218	20,001	1.09	220	20,504	1.07
173	13,857	1.25	150	13,338	1.12	150	13,961	1.07	153	13,608	1.12	199	15,252	1.30
12	729	1.65	5	601	.83	3	769	.39	1	758	.13	11	822	1.34
420	34,290	1.22	400	33,325	1.20	351	34,497	1.02	364	34,013	1.07	424	36,225	1.17
2	123	1.63	1	132	.76	2	127	1.57	3	116	2.59	2	131	1.53
4	77	5.19	1	95	1.05	1	72	1.39	2	82	2.44	3	103	2.91
1	159	.63	-----	122	-----	4	146	2.74	2	93	2.15	1	117	.85
-----	80	-----	-----	42	-----	-----	111	-----	1	63	1.59	-----	2	-----
6	200	3.00	2	227	.88	3	199	1.51	5	198	2.53	5	234	2.14

TABLE XI.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1882,—distinguishing between Parents who were Natives of the same State and those Born in different States or Countries.*

NATIVITY OF PARENTS OF TWINS, 1882.	PAIRS OF TWINS, 1882.							
	NUMBER.				PER CENT OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Fe-males.	One of each Sex.	Total.	Males.	Fe-males.	One of each Sex.
All Nativities.....	430	135	120	175	100.00	100.00	100.00	100.00
Same American State or Foreign Country.....	230	65	69	95	53.49	48.89	57.50	54.29
Different American States or Foreign Countries.....	112	40	25	47	26.04	29.63	20.84	26.86
Foreign Father and Native Mother....	49	14	16	19	11.40	10.37	13.33	10.86
Foreign Mother and Native Father....	26	11	8	7	6.04	8.15	6.67	4.99
Unknown Mother, Father Native.....	2	1	-----	1	.47	.74	-----	.57
Unknown Mother, Father Foreign.....	-----	-----	-----	-----	-----	-----	-----	-----
Unknown Father, Mother Native.....	2	-----	1	1	.47	-----	.83	.57
Unknown Father, Mother Foreign.....	-----	-----	-----	-----	-----	-----	-----	-----
Both Unknown.....	9	3	1	5	2.09	2.22	.83	2.85
Different States or Countries.....*	187	65	49	73	43.49	48.15	40.83	41.71

\* Includes "Different American States or Foreign Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country," and with same lines in Table XV. for still-born children.



TABLE XII.—*Exhibiting, for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1882. Nativity stated by Pairs of Twins.*

STATE AND COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
State	Total	860	430	84	85	146	27	49	26	2		2		9
	Males	445	135	a 20	b 30	c 46	a 10	14	d 11	1				e 3
	Females	415	120	26	21	f 43	4	16	g 8			1		41
	One of each		175	h 33	i 34	1 57	e 13	419	4 7	1		1		h 5
Allegan	Total	14	7	2	4				1					
	Males	8	3	1	2									
	Females	6	2		1				1					
	One of each		2	d 1	1									
Alpena	Total	8	4			2	1		1					
	Males	3	1				1							
	Females	5	2			1			1					
	One of each		1			1								
Barry	Total	18	9	4	2		1	1	1					
	Males	8	2				1		d 1					
	Females	10	3	2	1									
	One of each		4	2	1			1						
Bay	Total	42	21	2	5	8	2	3						j
	Males	21	5	1	1	a 1		2						
	Females	21	5		1	4								
	One of each		11	1	3	3	a 2	1						d 1
Benzie	Total	4	2		2									
	Males	3	1		1									
	Females	1												
	One of each		1		1									

a 1 male still-born.  
b 2 pairs and 1 male still-born.  
c 3 pairs and 5 males still-born.  
d 1 pair still-born.  
e 1 pair and 1 male still-born.  
f 2 females still-born.

g 1 female still-born.  
h 2 pairs, 1 male and 1 female still-born.  
i 2 females still-born.  
j 4 pairs and 3 females still-born.  
k 2 pairs still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

		NATIVITY OF PARENTS OF TWINS, 1882.												
COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Berrien	Total	10	5	2	2				1					
	Males	9	4	2	1				1					
	Females	1												
	One of each		1		1									
Branch	Total	6	3	1	2									
	Males	2	1		1									
	Females	4	2	1	1									
Calhoun	Total	10	5	1	1	1	2							
	Males	6	2	1		1								
	Females	4	1		1									
	One of each		2				2							
Cass	Total	4	2	1				1						
	Males	2												
	Females	2												
	One of each		2	1				1						
Cheboygan	Total	4	2				1	1						
	Males	3	1											
	Females	1												
	One of each		1				1							
Chippewa	Total	2	1	1										
	Males	1												
	Females	1												
	One of each		1	1										
Clinton	Males	2	1					1						
Delta	Females	2	1											
Eaton	Females	6	3		2	1								
Genesee	Total	10	5	1	2							1		
	Males	8	3	1	1									
	Females	2											1	
	One of each		2		1								1	

\* 1 male still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins, 1882.	NATIVITY OF PARENTS OF TWINS, 1882.										Both Unknown.
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Grand Traverse	Total.....	4	2	1	1									
	Males.....	2												
	Females.....	2												
	One of each.....		2	1	1									
Gratiot.....	Total.....	10	5	2	2									1
	Males.....	6	2	1										
	Females.....	4	1	1										
	One of each.....		2		2									
Hillsdale.....	Total.....	4	2		2									
	Males.....	2												
	Females.....	2												
	One of each.....		2		2									
Houghton.....	Total.....	24	12			10	1	1						
	Males.....	16	6			4	1	1						
	Females.....	8	2			2								
	One of each.....		4			4								
Huron.....	Total.....	14	7			4	2		1					
	Males.....	10	4			* 3			1					
	Females.....	4	1				1							
	One of each.....		2			1	1							
Ingham.....	Total.....	22	11	1	4	1	1	2	2					
	Males.....	9	2					2						
	Females.....	13	4	1	2				1					
	One of each.....		5		2	1	1		1					
Ionia.....	Total.....	8	4	3	1									
	Males.....	5	2	2										
	Females.....	3	1	1										
	One of each.....		1		1									
Iosco.....	Total.....	2												
	Males.....	1												
	Females.....	1												
	One of each.....		1						* 1					

\* One pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins, 1882.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Father.	Mother.	Native.	Foreign.	
Isabella.....	Total.....	12	6	.....	2	1	1	1	.....	.....	.....	.....	.....	1
	Males.....	6	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	6	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	.....	4	.....	.....	1	1	1	.....	.....	.....	.....	.....	1
Jackson.....	Total.....	18	9	2	2	2	.....	2	.....	.....	.....	.....	.....	1
	Males.....	8	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
	Females.....	10	3	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
	One of each.....	.....	4	1	1	1	.....	1	.....	.....	.....	.....	.....	.....
Kalamazoo.....	Total.....	12	6	1	.....	1	1	2	1	.....	.....	.....	.....	.....
	Males.....	8	3	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
	Females.....	4	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	One of each.....	.....	2	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....
Kalkaska.....	Males.....	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Total.....	26	13	4	2	3	1	2	.....	1	.....	.....	.....	.....
	Males.....	14	5	2	.....	1	1	.....	.....	1	.....	.....	.....	.....
	Females.....	12	4	1	1	1	.....	1	.....	.....	.....	.....	.....	.....
Kent.....	One of each.....	.....	4	1	1	1	.....	1	.....	.....	.....	.....	.....	.....
	Total.....	12	6	1	1	4	.....	.....	.....	.....	.....	.....	.....	.....
	Males.....	5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	7	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Keweenaw.....	One of each.....	.....	3	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
	Total.....	6	3	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....
	Males.....	5	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake.....	One of each.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	Total.....	16	8	2	1	2	.....	1	2	.....	.....	.....	.....	.....
	Males.....	7	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	Females.....	9	2	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....
Lapeer.....	One of each.....	.....	5	2	.....	2	.....	1	.....	.....	.....	.....	.....	.....
	Total.....	8	4	.....	1	1	1	1	.....	.....	.....	.....	.....	.....
	Males.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Leelanaw.....	One of each.....	.....	3	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....

a One male still-born.

b One pair still-born.

c One female still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Lenawee.....	Total.....	13	6	3	2	1								
	Males.....	6	2	1	1									
	Females.....	6	2	1		a 1								
	One of each.....		2	1	a 1									
Livingston.....	Total.....	12	6	4	2									
	Males.....	4	1		1									
	Females.....	8	3	2	1									
	One of each.....		2	2										
Mackinac.....	Females.....	2	1	1										
Macomb.....	Total.....	18	9	2		6		1						
	Males.....	5												
	Females.....	13	4	1		2		1						
	One of each.....		5	1		b 4								
Manistee.....	Total.....	12	6		1	3	1	1						
	Males.....	4	2		1	1								
	Females.....	8	4			2	1	1						
Manitou.....	Males.....	2	1				1							
Marquette.....	Total.....	14	7		2	5								
	Males.....	6	2		1	1								
	Females.....	8	3		1	2								
	One of each.....		2			2								
Mason.....	Total.....	6	3			2								1
	Males.....	4	1			c 1								
	Females.....	2												
	One of each.....		2			1								1
Mecosta.....	Total.....	20	10	2	2	2		4						
	Males.....	11	3			1		2						
	Females.....	9	2			1		1						
	One of each.....		5	2	2			1						
Menominee.....	Total.....	10	5		1	4								
	Males.....	4	1			1								
	Females.....	6	2		1	1								
	One of each.....		2			2								

a One female still-born.

b One pair still-born.

c One male still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	NATIVITY OF PARENTS OF TWINS, 1882.											
			Number of Pairs of Twins.	NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Berrien	Total	10	5	2	2				1					
	Males	9	4	2	1				1					
	Females	1												
	One of each		1		1									
Branch	Total	6	3	1	2									
	Males	2	1		1									
	Females	4	2	1	1									
Calhoun	Total	10	5	1	1	1	2							
	Males	6	2	1		1								
	Females	4	1		1									
	One of each		2				2							
Cass	Total	4	2	1										
	Males	2												
	Females	2												
	One of each		2	1				1						
Cheboygan	Total	4	2				1							
	Males	3	1					1						
	Females	1												
	One of each		1				1							
Chippewa	Total	2	1	1										
	Males	1												
	Females	1												
	One of each		1	1										
Clinton	Males	2	1											
Delta	Females	2	1											
Eaton	Females	6	3		2	1								
Genesee	Total	10	5	1	2				1			1		
	Males	8	3	1	1				1					
	Females	2												
	One of each		2		1							1		

\* 1 male still-born.



TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins, 1882.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Native.	Foreign.	Native.	Foreign.	
														Father.
Grand Traverse	Total.....	4	2	1	1									
	Males.....	2												
	Females.....	2												
	One of each.....		2	1	1									
Gratiot.....	Total.....	10	5	2	2									1
	Males.....	6	2	1										1
	Females.....	4	1	1										
	One of each.....		2		2									
Hillsdale.....	Total.....	4	2		2									
	Males.....	2												
	Females.....	2												
	One of each.....		2		2									
Houghton.....	Total.....	24	12			10	1	1						
	Males.....	16	6			4	1	1						
	Females.....	8	2			2								
	One of each.....		4			4								
Huron.....	Total.....	14	7			4	2		1					
	Males.....	10	4			3			1					
	Females.....	4	1				1							
	One of each.....		2			1	1							
Ingham.....	Total.....	22	11	1	4	1	1	2	2					
	Males.....	9	2					2						
	Females.....	13	4	1	2				1					
	One of each.....		5		2	1	1		1					
Ionia.....	Total.....	8	4	3	1									
	Males.....	5	2	2										
	Females.....	3	1	1										
	One of each.....		1		1									
Iosco.....	Total.....	2												
	Males.....	1												
	Females.....	1												
	One of each.....		1						1					

One pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins, 1882.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Native.	Foreign.	Native.	Foreign.	
Isabella.....	Total.....	12	6	.....	2	1	1	1	.....	.....	.....	.....	.....	1
	Males.....	6	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	6	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	4	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	1
Jackson.....	Total.....	18	9	2	2	2	.....	2	.....	.....	.....	.....	.....	1
	Males.....	8	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
	Females.....	10	3	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
	One of each.....	4	1	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Kalamazoo.....	Total.....	12	6	1	.....	1	1	2	1	.....	.....	.....	.....	.....
	Males.....	8	3	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
	Females.....	4	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	One of each.....	2	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....
Kalkaska.....	Males.....	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Total.....	26	13	4	2	3	1	2	1	.....	.....	.....	.....	.....
	Males.....	14	5	2	.....	1	1	.....	1	.....	.....	.....	.....	.....
	Females.....	12	4	1	1	1	.....	1	.....	.....	.....	.....	.....	.....
Kent.....	Total.....	4	1	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
	Males.....	5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	7	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	3	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Keweenaw.....	Total.....	12	6	1	1	4	.....	.....	.....	.....	.....	.....	.....	.....
	Males.....	5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	7	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	3	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Lake.....	Total.....	6	3	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....
	Males.....	5	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer.....	Total.....	16	8	2	1	2	.....	2	.....	.....	.....	.....	.....	.....
	Males.....	7	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	Females.....	9	2	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
	One of each.....	5	1	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Leelanaw.....	Total.....	8	4	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....
	Males.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	3	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....

\* One male still-born.

b One pair still-born.

c One female still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS, 1882.									
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.	
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Father.		Mother.	
										Native.	Foreign.	Native.	Foreign.
Lenawee.....	Total.....	12	6	3	2	1							
	Males.....	6	2	1	1								
	Females.....	6	2	1		a 1							
	One of each.....		2	1	a 1								
Livingston.....	Total.....	12	6	4	2								
	Males.....	4	1		1								
	Females.....	8	3	2	1								
	One of each.....		2	2									
Mackinac.....	Females.....	2	1	1									
	Total.....	18	9	2		6		1					
Macomb.....	Males.....	5											
	Females.....	13	4	1		2		1					
	One of each.....		5	1		b 4							
	Total.....	12	6		1	3	1	1					
Manistee.....	Males.....	4	2		1	1							
	Females.....	8	4			2	1	1					
	Males.....	2	1				1						
Marquette.....	Total.....	14	7		2	5							
	Males.....	6	2		1	1							
	Females.....	8	3		1	2							
	One of each.....		2			2							
Mason.....	Total.....	6	3			2							1
	Males.....	4	1			c 1							
	Females.....	2											
	One of each.....		2			1							1
Mecosta.....	Total.....	20	10	2	2	2		4					
	Males.....	11	3			1		2					
	Females.....	9	2			1		1					
	One of each.....		5	2	2								
Menominee.....	Total.....	10	5		1	4							
	Males.....	4	1			1							
	Females.....	6	2		1	1							
	One of each.....		2			2							

a One female still-born.

b One pair still-born.

c One male still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	Sex.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Midland	Total.....	4	2			1	1							
	Males.....	1												
	Females.....	3	1				1							
	One of each.....		1			1								
Missaukee	Total.....	6	3			2		1						
	Males.....	2	1			1								
	Females.....	4	2			1		1						
Monroe	Total.....	22	11	5	2	2		1	1					
	Males.....	12	5	1	a 2	1		1						
	Females.....	10	4	2		1			1					
	One of each.....		2	b 2										
Montcalm	Total.....	16	8	1	4	1		2						
	Males.....	9	3		3									
	Females.....	7	2	1				1						
	One of each.....		3		1	1		1						
Montmorency	Males.....	2	1			1								
Muskegon	Total.....	24	12	1	1	6	1	1	2					
	Males.....	18	6	1	1	1	1		2					
	Females.....	6												
	One of each.....		6			5		1						
Newaygo	Total.....	12	6			3		1	2					
	Males.....	5	2			1			1					
	Females.....	7	3			1		1	1					
	One of each.....		1			c 1								
Oakland	Total.....	12	6	4				2						
	Males.....	5												
	Females.....	7	1					1						
	One of each.....		5	4				1						
Oscoda	Total.....	12	6	2	3	1								
	Males.....	6	1		1									
	Females.....	6	1			1								
	One of each.....		4	2	2									
Ogemaw	Females.....	2	1		1									

a One pair still-born.

b One male still-born.

c One female still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS, 1882.										
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.			Father.	Mother.			
Ontonagon.....	Total.....	6	3			2		1						
	Males.....	5	2			2								
	Females.....	1												
	One of each.....		1					1						
Osceola.....	Total.....	10	5	1		3			1					
	Males.....	5	1			a 1								
	Females.....	5	1			1								
	One of each.....		3	1		b 1			1					
Ottawa.....	Total.....	14	7			5	2							
	Males.....	5	1				1							
	Females.....	9	3			b 3								
	One of each.....		3			2	1							
Presque Isle.....	Females.....	2	1			1								
Roscommon.....	Total.....	2	1			1								
	Males.....	1												
	Females.....	1												
	One of each.....		1			1								
Saginaw.....	Total.....	52	26	2	5	13		3						3
	Males.....	27	10		2	c 6		1						1
	Females.....	25	9	1	2	b 5								d 1
	One of each.....		7	1	1	2		2						d 1
Sanilac.....	Total.....	14	7	2		3	2							
	Males.....	8	3			2	1							
	Females.....	6	2	1		1								
	One of each.....		2	1			1							
Schoolcraft.....	Total.....	2	1	1										
	Males.....	1												
	Females.....	1												
	One of each.....		1	1										

a 1 male still-born.

b 1 female still-born.

c 1 pair and 3 males still-born.

d 1 pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS, 1882.										Both Unknown.
				NATIVE.		FOREIGN.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Shiawassee	Total	22	11	3	3	2		2	1					
	Males	10	4	2	a 2									
	Females	12	5	1		1		2	1					
	One of each		2		1	1								
St. Clair	Total	20	10	2		3	2	1	1	1				
	Males	11	3			1	b 2							
	Females	9	2			1		1						
	One of each		5	c 2		1			1	1				
St. Joseph	Total	18	9	2	4	2		1						
	Males	9	2			1		1						
	Females	9	2	1	1									
	One of each			1	c 3	1								
Tuscola	Total	20	10	3	2	2		2	1					
	Males	9	3		2	1								
	Females	11	4	3				1						
	One of each		3			1		1	a 1					
Van Buren	Total	16	8		5	1			1					1
	Males	12	5		b 3	1			1					
	Females	4	1		1									
	One of each		2		1									1
Washtenaw	Total	6	3			1			2					
	Males	3												
	Females	3												
	One of each		3			1			2					
Wayne	Total	88	44	10	1	24	2	3	3			1		
	Males	47	13	2		8		1	2					
	Females	41	10	3		3	1	1	1			1		
	One of each		21	5	1	d 13	1	1						
Wexford	Total	6	3		2	1								
	Males	1												
	Females	5	2		1	1								
	One of each		1		1									

<sup>a</sup> 1 pair still-born.<sup>b</sup> 1 male still-born.<sup>c</sup> 1 female still-born.<sup>d</sup> 1 pair and 1 female still-born.



## TRIPLLET CHILDREN, 1882.

It will be seen from Table XIX. that there were nine cases of triplets reported for the year 1882. In four cases the parents were both native, and in four both were foreign, while in one case there was a mixed parentage. The set returned from Jackson county were all still-born, and in the set from Allegan county one male was still-born. As regards the sex of the triplets the males predominate at the rate of two to one. The parents were all white.

TABLE XIX.—*Exhibiting certain Details concerning Triplet Children Returned as having been born in Michigan during the Year 1882.*

COUNTIES.	TRIPLLET CHILDREN, 1882.					PARENTS OF TRIPLETS, 1882.		
	Month of Birth, 1882.	Color.	Sex.			Birthplace of Father.	Birthplace of Mother.	Occupation of Father.
			Males.	Females.	Unk.			
Allegan.....	Nov.....	White.....	2	1	.....	Netherlands..	Netherlands..	Farmer.
Berrien.....	Sept.....	White.....	.....	3	.....	Delaware.....	Michigan.....	Farmer.
Jackson.....	Aug.....	White.....	3	.....	.....	Michigan.....	England.....	Merchant.
Kent.....	Oct.....	White.....	3	.....	.....	New York.....	New York.....	Laborer.
Montcalm.....	Dec.....	White.....	3	.....	.....	Michigan.....	Michigan.....	Laborer.
St. Clair.....	Nov.....	White.....	.....	3	.....	Michigan.....	Michigan.....	Farmer.
Tuscola.....	April.....	White.....	3	.....	.....	Canada.....	England.....	Laborer.
Wayne.....	Dec.....	White.....	2	1	.....	Canada.....	Canada.....	Tinsmith.
Wayne.....	Sept.....	White.....	2	1	.....	Germany.....	Germany.....	Mechanic.

## STILL-BIRTHS, 1882.

The whole number of still-born children reported in Michigan for the year 1882 was 792; this number is 101 more than for the year 1881, and 54 more than for the year 1880. The only year in which this number was surpassed was in 1878, when there were 793 still-births returned in this State. In 1882, 2.14 per cent of all the births returned were still-born, and 2.11 per cent of all the mothers, who bore children during the year, gave birth to still-born children, as shown in Exhibit 6.

Much that is interesting and instructive concerning still-born children in Michigan may be learned from Exhibit 7. It is seen that a much larger proportion of the foreign mothers bear still-born children than the native, and as this is true for every year for the last fifteen years, it seems to be a well established fact. Attention may also be called to the fact that a much larger proportion of the Black and Mulatto mothers have still-births than the mothers of any other color.

EXHIBIT 6.—*The Relation of Still-births to all Children Returned as having been Born in Michigan during the several Years 1874 to 1882, inclusive, and of the Mothers of Still-born Children to all Mothers Returned as having Borne Children during each of the Years 1874 to 1882, inclusive.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND STILL-BIRTHS.								
	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.
All Children born.....	31,151	31,958	34,235	33,305	35,162	34,122	35,323	34,749	37,026
Still-born Children.....	464	620	646	720	793	749	738	691	792
Per Cent of Still-born to Total.....	1.49	1.97	1.89	2.15	2.26	2.20	2.09	1.99	2.14
All Mothers.....	30,739	31,586	33,791	33,028	34,729	33,716	34,953	34,367	36,578
Mothers of Still-born Children.....	454	613	620	697	756	723	723	678	771
Per Cent of Mothers of Still-born Children to All Mothers.....	1.48	1.94	1.83	2.11	2.20	2.14	2.07	1.97	2.11

EXHIBIT 7.—*By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during the Years 1875 to 1882, according to the Returns.*

NATIVITY AND COLOR OF MOTHERS.	1875.			1876.			1877.			1878.		
	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.
Mothers of all colors and all nativities.....	613	31,586	1.94	620	33,791	1.83	697	33,028	2.11	765	34,729	2.20
All native-born mothers	299	17,510	1.71	277	19,066	1.45	337	18,891	1.78	358	20,143	1.78
All foreign-born mothers	239	12,777	1.87	268	13,679	1.96	286	13,440	2.12	321	13,857	2.32
Mothers of unknown nativities.....	75	1,299	5.77	75	1,026	7.31	74	688	10.76	86	729	11.80
White.....	593	31,147	1.90	595	33,273	1.79	677	32,445	2.08	747	34,290	2.18
Black.....	3	112	2.68	7	139	5.04	1	101	.99	3	123	2.44
Mulatto.....	6	89	6.74	2	88	2.27	3	87	3.45	4	77	5.19
Indian.....	—	136	—	2	139	1.44	4	128	3.13	—	159	—
Unknown.....	11	102	10.78	14	152	9.21	12	267	4.49	11	80	13.75
Black and Mulatto.....	9	201	4.48	9	227	3.96	4	188	2.13	7	200	3.50

NATIVITY AND COLOR OF MOTHERS.	1879.			1880.			1881.			1882.		
	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.
Mothers of all colors and all nativities.....	723	33,716	2.14	723	34,953	2.07	678	34,367	1.97	771	36,578	2.11
All native-born mothers	367	19,777	1.86	371	20,223	1.83	352	20,001	1.76	358	20,504	1.75
All foreign-born mothers	280	13,338	2.10	285	13,961	2.04	272	13,608	2.00	306	15,252	2.01
Mothers of unknown nativities.....	76	601	12.65	67	769	8.71	54	758	7.12	107	822	13.02
White.....	706	33,325	2.12	706	34,497	2.05	650	34,013	1.91	760	36,225	2.10
Black.....	4	132	3.03	4	127	3.15	6	116	5.17	9	131	6.87
Mulatto.....	2	95	2.11	3	72	4.17	5	82	6.10	1	103	.97
Indian.....	1	122	.82	—	146	—	—	93	—	1	117	.85
Unknown.....	10	42	23.81	10	111	9.01	17	63	26.98	—	2	—
Black and Mulatto.....	6	227	2.64	7	199	3.52	11	198	5.56	10	234	4.27

EXHIBIT 11.—*Occupations of Fathers of Still-born Children in Michigan in 1882, according to the Returns.*

FATHERS.		CHILDREN.			FATHERS.		CHILDREN.		
OCCUPATIONS.	Males.	Females.	Unk.		OCCUPATIONS.	Males.	Females.	Unk.	
Agents.....	1	1			Mechanics.....	2			
Architects.....	1				Merchants.....	10	5		
Bakers.....	1	1			Millers.....	3			
Bankers.....		1			Mill-men.....		2		
Barbers.....	1				Mill-wright.....	1			
Bar-tenders.....		1			Mining Captains.....	2			
Blacksmiths.....	6	3	1		Miners.....	15	13	3	
Book-keepers.....	1	2			Ministers.....	1			
Brewers.....	1				Molders.....	1	1		
Brick-layers.....		1			Money Loaners.....		1		
Broom-makers.....	1				Night Watchman.....			1	
Butchers.....	1				Pail-makers.....	1			
Cabinet-makers.....	4	1			Painters.....	4	1		
Car Drivers.....	1				Peddlers.....	1	2		
Carpenters.....	11	11	2		Photographers.....	1			
Cigar-makers.....	2	2			Physicians.....	3	1	1	
Clerks.....	4	2			Policemen.....	1			
Conductors.....		1			Porter.....	1			
Confectioners.....	2				Raftsmen.....	2			
Cooks.....		1			R. R. Clerks.....	1			
Coopers.....	2	2			R. R. Men.....	2	1		
Curriers.....	1				R. R. Watchman.....	1			
Draymen.....	1				Sailors.....	1		1	
Driver of Hose Cart.....	1				Salesmen.....	1			
Engineers.....	1	4	1		Salt-boilers.....	1	1		
Farmers.....	173	135	11		Saw-filers.....	1			
Farm Laborers.....	1				Sawyers.....	2			
Firemen.....	1	2			Shingle Sawyers.....	1			
Fishermen.....	1				Shoe-makers.....	2	2		
Foremen.....	2				Steam-dredgers.....		1		
Grocers.....	5				Stove-mounters.....		1		
Hack Drivers.....		1			Switchmen.....		1		
Harness-makers.....		1			Tailors.....	1	1	1	
Horsemen.....		1			Teachers.....	1	2		
Jewelers.....	1				Teamsters.....	4	4		
Laborers.....	76	51	5		Telegraphers.....	1	1		
Lawyers.....	1	4			Tool-makers.....	1			
Lumber Dealers.....		1			Unknown.....	58	36	6	
Lumbermen.....	1	1			Varnishers.....		1		
Machinists.....		5			Vessel-loaders.....		1		
Managers.....	1				Wheelwrights.....	1			
Manufacturers.....		2			Wire-makers.....	1			
Masons.....	1	4	1						

The subject of still-born children may be studied further in Tables XIV. and XV. Of the 792 still-born children, 438 were males and 321 were females, and of 33 the sex was not reported. More still-births were returned for the month of December than for any other month of the year 1882.

TABLE XV.—*Parent-Nativity of Still-born Children, Exhibiting, by Sex, the Number, and Per Cent of Total Number Returned as having been Born in Michigan during the Year 1882, of Parents who were Natives of the Same and of Different States or Countries.*

NATIVITY OF PARENTS OF STILL-BORN CHILDREN, 1882.	STILL-BORN CHILDREN, 1882.							
	NUMBER.				PER CT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.
All nativities.....	792	438	321	33	100.00	100.00	100.00	100.00
Same American state or foreign coun- try.....	412	211	185	16	52.02	48.17	57.63	43.49
Different American states or foreign countries.....	150	94	50	6	18.94	21.46	15.57	13.18
Foreign father and native mother.....	65	36	28	1	8.21	8.22	8.72	3.03
Foreign mother and native father.....	43	29	11	3	5.43	6.62	3.43	9.09
Unknown mother, father native.....	8	5	3	-----	1.01	1.14	.94	-----
Unknown mother, father foreign.....	4	3	1	-----	.50	.69	.31	-----
Unknown father, mother native.....	10	5	4	1	1.26	1.14	1.25	3.03
Unknown father, mother foreign.....	1	1	-----	-----	.13	.23	-----	-----
Both unknown.....	29	54	39	6	12.50	12.33	12.15	13.18
Different states or countries.....	258	159	89	10	32.58	36.30	27.73	30.30
Native.....	288	161	116	11	36.36	36.75	36.14	33.33
Foreign.....	274	144	119	11	34.60	32.88	37.07	33.33

TABLE XIV.—*Exhibiting, by Sex, the Parent-Nativity, and by Sex and by Months, the Number of Still-births in Michigan during the Year 1882, according to the Returns.*

SEX.	YEAR, 1882.	MONTHS, 1882.												NATIVITY OF PARENTS OF STILL-BIRTHS, 1882.																
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Parents Born in Michigan.	Native.			Foreign.			Foreign Father and Native Mother.		Native Father and Foreign Mother.		Mother Unk.		Father Unk.		Both Unknown.
		Total.	Same State.	Different States.	Total.	Same Country.	Different Countries.	Total.	Same Country.	Different Countries.	Total.	Same State.	Different States.	Total.		Father.	Mother.													
Total.....	a 792	43	61	61	57	62	64	62	64	54	75	68	115	6	199	234	288	165	123	274	247	27	65	43	8	4	10	1	99	
Males.....	b 438	29	34	31	32	36	39	34	36	29	45	37	55	1	117	135	161	84	77	144	127	17	36	29	5	3	5	1	54	
Females....	c 321	13	24	29	24	22	24	25	26	22	28	27	54	3	78	91	116	76	40	119	109	10	28	11	3	1	4	....	39	
Unknown...	d 33	1	3	1	1	4	1	3	2	3	2	4	6	2	4	8	11	5	6	11	11	....	1	....	....	....	1	....	6	

a Includes 7 pairs and 9 half-pairs male twins; 1 pair and 5 half-pairs female twins; 11 pairs twins one of each sex, 2 male twins and 6 female twins; and 1 set of triplets.

b Includes 3 triplet children, 4 Black, 1 Mulatto, 1 Indian, and 5 illegitimates.

c Includes 9 Black, and 1 illegitimate.

d Includes 1 illegitimate.



## ILLEGITIMATE CHILDREN, 1882.

There were 301 illegitimate children returned for the year 1882, which is less by 81 than the number recorded in 1881, and less by 124 than was returned in 1880. This is .81 per cent of the total births, and .82 per cent of all the mothers in 1882 bore illegitimate children. It is the smallest proportion shown for any year since 1878. Of the 301 illegitimates, 145 were males, 154 females, and in two the sex was not stated. Wayne county furnished 44.19 per cent of the entire number. It is to be expected that the returns of such births will be incomplete, although this deficiency is nearly a constant one from year to year. The decrease, for 1882, in the number of births out of wedlock from the number reported for the last two years is quite marked. The average annual number of illegitimate children for the fifteen years 1868-82 is 247, which indicates that the year 1882 is considerably above an average one.

Exhibit 9 shows the nativity and color of mothers of illegitimate children for each of the years 1875 to 1882, inclusive. The proportion of mothers of illegitimates to all mothers is greatest among the native-born for each year shown in the Exhibit, and the per cent of the unknown nativities is greatly in excess of the others.

Among the different races the per cent of mothers of illegitimate children to all mothers is greatest among the Indians, and least among the white inhabitants, the per cent among the whites being only .76, while that of the Indians is 9.40.

In Table XVI. may be seen the number of illegitimate children by months, by sex, and by parent-nativity. The largest number appears for March, and the smallest for February. Table XVII. shows the illegitimate birth-rate among the different races for the year 1882. The largest per cent of illegitimate births to population is for the Indians, the next for the black and mulatto, and the smallest for the whites.

The proportion of the sexes among these children for the year 1882 was 94 males to every 100 females, as is seen in Table XVIII. It also shows what a large proportion of the fathers escape registration, over 78 per cent of them.

EXHIBIT 8.—*The Relation of Illegitimate Children to All Children Returned as having been Born during the Years 1873 to 1882 inclusive, and of Mothers of Illegitimates to all Mothers Returned as having Borne Children in Michigan during each of the Years 1877 to 1882, inclusive.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND ILLEGITIMATES.									
	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.
All children born.....	34,608	31,151	31,968	34,235	33,365	35,162	34,122	35,323	34,749	37,026
Illegitimate children.....	316	236	193	266	316	<sup>a</sup> 202	292	425	382	301
Per cent of illegitimates to total.....	.91	.76	.60	.78	.95	.57	.86	1.20	1.10	.81
All mothers.....	34,180	30,730	31,586	33,791	33,028	34,729	33,716	34,953	34,367	36,578
Mothers of illegitimate children.....	314	236	192	262	312	202	289	423	378	290
Per cent of mothers of illegitimates to all mothers.....	.92	.77	.61	.78	.94	.58	.86	1.21	1.10	.82

<sup>a</sup> The number of illegitimates returned from Wayne county for 1878 was probably too small by about 70 births. Heretofore the children born in the "Foundling's Home" in the ninth ward of Detroit, have generally been returned as illegitimate; but we were unable to get any such statement for 1878, although there is no doubt that those children whose fathers' names were reported "Unknown" (the mothers' names being given) in the said ninth ward, were illegitimate.

EXHIBIT 9.—*By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during the Years 1875 to 1882, inclusive.*

NATIVITY AND COLOR OF MOTHERS.	1875.			1876.			1877.			1878.		
	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.
Mothers of all colors and all nativities.....	192	31,586	.61	262	33,791	.78	312	33,028	.94	202	34,729	.58
All native-born mothers	96	17,510	.55	170	19,086	.89	160	18,801	.85	114	20,143	.57
All foreign-born mothers...	31	12,777	.24	53	13,679	.39	79	13,449	.59	34	13,857	.25
Mothers of unknown nativities .....	65	1,299	5.00	39	1,036	3.80	73	688	10.61	54	729	7.41
White.....	166	31,147	.53	243	33,273	.73	286	32,445	.88	179	34,290	.52
Black .....	8	112	7.14	3	139	2.16	6	101	5.94	7	123	5.69
Mulatto.....	3	89	3.37	7	88	7.95	4	87	4.60	3	77	3.90
Indian .....	15	136	11.03	9	139	6.47	15	128	11.72	11	159	6.92
Unknown.....		102	-----		152	-----	1	267	.37	2	89	2.50
Black and Mulatto.....	11	201	5.47	10	227	4.41	10	188	5.32	10	200	5.00
NATIVITY AND COLOR OF MOTHERS.	1879.			1880.			1881.			1882.		
	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole Number of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.
Mothers of all Colors and all nativities.....	289	33,716	.86	423	34,953	1.21	378	34,367	1.10	299	36,578	.82
All native-born mothers	136	19,777	.69	147	20,223	.73	185	20,001	.92	143	20,504	.70
All foreign-born mothers...	89	13,338	.67	72	13,961	.52	96	13,608	.71	77	15,252	.50
Mothers of unknown nativities .....	64	601	10.65	204	769	26.53	97	758	12.80	79	822	9.61
White.....	266	33,325	.80	408	34,497	1.18	365	34,013	1.07	275	36,225	.76
Black .....	7	132	5.30	4	127	3.15	6	116	5.17	9	131	6.87
Mulatto.....	4	95	4.21	3	72	4.17	3	82	3.66	4	103	3.88
Indian .....	11	122	9.02	7	146	4.79	4	93	4.30	11	117	9.40
Unknown.....	1	42	2.38	1	111	.90	---	63	-----	---	2	-----
Black and Mulatto.....	11	227	4.85	7	199	3.52	9	198	4.55	13	234	5.56

\* See foot-note a, Exhibit 9, page 73.

TABLE XVI.—*Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan during the Year ending December 31, 1882, according to the Returns.*

SEX OF ILLEGITI- MATES, 1882.	YEAR, 1882.	MONTHS, 1882.												NATIVITY OF MOTHERS OF ILLE- GITIMATES, 1882.						NATIVITY OF FATHERS OF ILLE- GITIMATES, 1882.																
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Native.			Foreign.			Native.			Foreign.												
															Total.	Born in Mich- igan.	Born in other States.	Total.	Born in Can- ada.	Born in other Countries.	Total.	Born in Can- ada.	Born in other States.	Total.	Born in Can- ada.	Born in other Countries.	Total.	Born in Can- ada.	Born in other Countries.	Total.	Born in Can- ada.	Born in other Countries.	Total.	Born in Can- ada.	Born in other Countries.	Total.
Total.....	301	21	14	39	20	35	25	27	18	28	18	25	26	5	145	90	55	77	29	48	79	35	21	14	31	11	20	235								
Males .....	145	12	8	15	11	16	9	9	13	17	10	10	13	2	76	50	26	32	14	18	37	17	9	8	19	5	14	109								
Females....	154	9	6	24	9	19	16	18	5	11	8	15	13	1	67	39	28	45	15	30	42	18	12	6	12	6	6	124								
Unknown ..	3													2	2	1	1											2								

a Five males, 1 female, and one unknown sex, still-born; 1 pair female twins, and 1 pair one of each sex.

b Includes 4 Black, 2 Mulatto, and 8 Indian.

c Includes 5 Black, 2 Mulatto, and 3 Indian.

TABLE XVII.—*Exhibiting, by Color, and by Sex, the Population June 1, 1880, the Number of Illegitimate Children Returned as having been Born in Michigan during the Year 1882, the Per Cent of such Children to Inhabitants, the Per Cent of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Reported.*

COLOR OR RACE.	SEX.	Population June 1, 1880, Represent- ed by Births in 1882.	Total Illegitimate Births, 1882.	Per Cent of Births to Popula- tion.	Per Cent of each Sex to Total of Both Sexes.	Number of Inhabit- ants to one Illegitimate Child of the same Color.
All Colors.....	Total.....	* 1,633,352	301	.02	-----	5,426
	Males.....	860,179	145	.02	48.49	5,932
	Females...	773,173	154	.02	51.51	5,021
	Unknown.....	-----	2	-----	-----	-----
White.....	Total.....	1,611,410	277	.02	-----	5,817
	Males.....	-----	131	-----	47.64	-----
	Females...	-----	144	-----	52.36	-----
	Unknown.....	-----	2	-----	-----	-----
Black.....	Total.....	-----	9	-----	-----	-----
	Males.....	-----	4	-----	44.44	-----
	Females...	-----	5	-----	55.56	-----
Mulatto.....	Total.....	-----	4	-----	-----	-----
	Males.....	-----	2	-----	50.00	-----
	Females...	-----	2	-----	50.00	-----
Indian.....	Total.....	6,827	11	.16	-----	621
	Males.....	-----	8	-----	72.73	-----
	Females...	-----	3	-----	27.27	-----
Black and Mulatto.	Total.....	15,067	13	.09	-----	1,161
	Males.....	-----	6	-----	46.15	-----
	Females...	-----	7	-----	53.85	-----

\* Includes 28 Asiatics.

TABLE XVIII.—*Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent of Total Number of Illegitimate Children Born of Native and of Foreign-born Parents, in Michigan, during the Year 1882, according to the Returns.*

NATIVITY OF PARENTS OF ILLEGITIMATES, 1882.		ILLEGITIMATE CHILDREN, 1882.								
		Number of Males to 100 Females	Number.				Per Cent of Total.			
			Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.
All nativities.....		94	301	145	154	2	100.60	100.00	100.00	100.00
Mothers.....	Native.....	113	145	76	67	2	48.17	52.41	43.51	100.00
	Foreign.....	71	77	32	45	.....	25.58	23.07	29.22	.....
	Unknown.....	88	79	37	42	.....	26.25	25.52	27.27	.....
Fathers.....	Native.....	94	35	17	18	.....	11.63	11.73	11.69	.....
	Foreign.....	158	31	19	12	.....	10.30	13.10	7.79	.....
	Unknown.....	88	235	109	124	2	78.07	75.17	80.52	100.00



TABLE XX.—*Exhibiting the Number of Males to 100 Females among Twin Children, and the Number of Illegitimate and Still-born Children Born during the Year 1882.*

STATE AND COUNTIES.	Twin Children, Number of Males to 100 Females.	Number of Illegiti- mate Chil- dren born in 1882.	Number of Still- births in 1882.	COUNTIES.	Twin Children, Number of Males to 100 Females.	Number of Illegiti- mate Chil- dren born in 1882.	Number of Still- births in 1882.
State.....	107	301	792	Lenawee.....	100	6	10
Allogan.....	133	2	15	Livingston.....	50	2	9
Alpena.....	60		4	Mackinac.....	a		
Antrim.....		1	5	Macomb.....	38	4	14
Barry.....	80	3	8	Manistee.....	50	1	15
Bay.....	100	2	20	Manitou.....	b		1
Benzie.....	300		3	Marquette.....	75	5	26
Berrien.....	900	2	16	Mason.....	200	1	5
Branch.....	50	1	8	Mecosta.....	122		2
Calhoun.....	150		7	Menominee.....	67		4
Cass.....	100	4	6	Midland.....	33	2	2
Charlevoix.....			4	Missaukee.....	50		3
Cheboygan.....	300		2	Monroe.....	120	6	19
Chippewa.....	100	5	3	Montcalm.....	129	5	15
Clare.....			5	Montmorency.....	b		
Clinton.....	b	2	6	Muskegon.....	300	5	16
Crawford.....			1	Newaygo.....	71	3	18
Delta.....	a	1	2	Oakland.....	71	2	13
Eaton.....	a		8	Oceana.....	100		7
Emmet.....		9	3	Ogemaw.....	a		2
Genesee.....	400	4	9	Ontonagon.....	500	2	2
Grand Traverse..	100			Osceola.....	100		6
Gratiot.....	150	3	8	Oscoda.....			1
Hillsdale.....	100	1	6	Otsego.....		1	
Houghton.....	200	3	10	Ottawa.....	56	2	22
Huron.....	250	3	11	Presque Isle.....	a		4
Ingham.....	69		14	Roscommon.....	100	1	1
Ionia.....	187	4	10	Saginaw.....	108	13	68
Iosco.....	100	1	6	Sanilac.....	133	4	14
Isabella.....	100	4	3	Schoolcraft.....	100	1	2
Jackson.....	80	1	10	Shiawassee.....	83	3	11
Kalamazoo.....	200	5	9	St. Clair.....	122	7	17
Kalkaska.....	b		1	St. Joseph.....	100	4	23
Kent.....	117	5	16	Tuscola.....	82	5	9
Keweenaw.....	71	5	15	Van Buren.....	300	3	12
Lake.....	500		2	Washtenaw.....	100	4	17
Lapeer.....	78	4	14	Wayne.....	115	133	125
Leelanaw.....	60	1	4	Wexford.....	20		3

a No males.

b No females.

## TOWNSHIPS IN WHICH THERE WERE NO BIRTHS.

79

Exhibit 10 gives the names of 18 townships in Michigan in which it was reported that no births occurred in 1882. Four of these townships were organized since the census of 1880 was taken, and the remaining ones represent a population of 3,417. Fife Lake, in Grand Traverse county, reports no births, although it has a population of 974.

EXHIBIT 10.—*Townships in which it is Reported there were no Births in 1882.*

COUNTIES.	TOWNSHIPS,—NO BIRTHS IN 1882.	POPULATION IN 1880.		
		Total.	Males.	Females.
Total .....	.....	3,417	2,180	1,237
Benzle .....	Lake .....	42	26	16
Delta .....	{ Nahma .....	388	235	153
	{ Winona .....	78	43	35
Emmet .....	Littlefield .....	266	143	123
Grand Traverse .....	Fife Lake .....	974	560	414
Iosco .....	Thompson .....	81	64	17
Lake .....	Eaton .....	92	49	43
Missaukee .....	Pioneer .....	299	192	107
Ogemaw .....	{ Cumming .....	122	91	31
	{ Edwards .....	306	210	96
Oscoda .....	{ Greenwood .....			
	{ Long Lake .....			
	{ Mentor .....			
Otsego .....	{ Charlton .....	100	65	35
	{ Elmira .....	225	112	113
Roscommon .....	{ Denton .....	210	162	48
	{ Nester .....	234	228	6
Wexford .....	South Branch .....			

\* Organized since census was taken.

There were 11 townships besides Isle Royal county from which no returns of births were received for the year 1882. These delinquent townships represent a population of 3,585. In nearly every instance the supervisors neglected to make returns to the county clerk.

TABLE XXI.—*Exhibiting the Counties and Townships from which no Returns of Births in 1882 were Received, and by Sex and by Color, the Number of Inhabitants June 1, 1880, in such Counties and Townships.*

COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS OF BIRTHS WERE RECEIVED FOR 1882.	POPULATION, JUNE 1, 1880.			WHITES.			Total Black and Mulatto.	Total Indian.	Total Native.	Total Foreign.
		Total.	Males.	Females.	Total.	Males.	Females.				
Total.....	.....	3,585	2,178	1,409	3,150	595	387	13	422	2,014	805
Delta.....	Sack Bay.....	301	174	127	301	174	127	.....	.....	.....	.....
Iosco.....	Wilber.....	202	100	102	202	100	102	.....	.....	122	80
Mackinac.....	Brevort.....*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Garfield.....*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Hendricks.....	434	294	140	409	.....	.....	.....	25	317	117
	Holmes.....	910	482	428	762	.....	.....	13	135	747	163
Mason.....	Branch.....	400	277	123	371	.....	.....	.....	29	234	166
	Eden.....	589	354	235	416	.....	.....	.....	173	461	128
Menominee..	Cedarville.....	229	171	58	229	171	58	.....	.....	99	130
	Ingallston.....	195	119	76	195	119	76	.....	.....	.....	.....
Schoolcraft..	Munising.....	270	174	96	210	.....	.....	.....	60	.....	.....
Isle Royal...	All townships....	55	31	24	55	31	24	.....	.....	34	21

\* Organized since census was taken.

#### SEX OF CHILDREN.

The tables and exhibits which follow are much the same in this as in previous Reports. They are designed to facilitate the study of the influence of season, of mortality, of parent-nativity, etc., upon the sex of the children born. The births are given by months, as they are originally returned, as they appear after corrected for omissions in the enumeration, and also as they appear when the months are made of equal length.

Exhibit N shows the births as compiled directly from the returns; Exhibit O shows the births, after those in unknown month and children of whom the sex is not reported are omitted; and Exhibit P shows the births after the above-mentioned corrections are made.

**TABLE XXII.**—*Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1881-82, and the Proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1882, according to the Returns.*

CONCEPTIONS FOR BIRTHS IN 1882. <sup>a</sup>			
Months of 1881 and 1882 of Conceptions of Births in 1882, in order by number, the least first.	Total Number of Conceptions. <sup>b</sup>	Months <sup>a</sup> of 1881 and 1882 in order by Number of Males, to 100 Females, greatest first.	Number of Males to 100 Females.
Less than the Average Number of Conceptions.		More than the Average Proportion of Males.	
April.....	2,438	December..... <sup>c</sup>	112
May.....	2,754	April.....	111
September.....	2,770	July..... <sup>c</sup>	110
June.....	2,948	October.....	110
August.....	2,971	June.....	109
October.....	3,039	November..... <sup>c</sup>	108
Average.....	3,078	Average.....	108
More than the Average Number of Conceptions.		Less than the Average Proportion of Males.	
July.....	3,098	January, 1882.....	108
February, 1882.....	3,251	March, 1882.....	107
January, 1882.....	3,314	May..... <sup>c</sup>	106
March, 1882.....	3,408	February, 1882.....	106
November.....	3,453	August..... <sup>c</sup>	105
December.....	3,491	September..... <sup>c</sup>	102

<sup>a</sup> Equalized to months of 30.44 days each, and excluding unknown sex and unknown month.

<sup>b</sup> For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

<sup>c</sup> Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

TABLE XXIII.—*Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

CONCEPTIONS FOR BIRTHS, 1882. <sup>a</sup>					
Months of 1881 and 1882 of Conceptions of Births in 1882, estimated from Births Corrected as if enumerated in months of occurrence, and equalized to months of uniform length. Months arranged in order by number, the least first.		Number of Conceptions as Corrected and Equalized. <sup>b</sup>	Months of 1881 and 1882 of Conceptions of Births in 1882, estimated from Births Corrected as if enumerated in months of occurrence, and equalized to months of uniform length. Months arranged in order by number of Males to 100 Females, greatest first.		Number of Males to 100 Females. Births Corrected and Equalized.
Less than the Average Number of Conceptions.	April.....	3,758	More than the Average Proportion of Males.	April.....	115
	September.....	3,799		December..... <sup>c</sup>	114
	February.....1882	3,910		October.....	113
	March.....1882	3,983		July..... <sup>c</sup>	113
	October.....	4,067		June..... <sup>c</sup>	112
	January.....1882	4,098		Average.....	111
Average.....		4,140	Less than the Average Proportion of Males.	May.....	110
More than the Average Number of Conceptions.	May.....	4,150		November.....	110
	August.....	4,175		January.....1882 <sup>c</sup>	110
	June.....	4,343		March.....1882 <sup>c</sup>	109
	December.....	4,435		August.....	108
	July.....	4,461		February.....1882 <sup>c</sup>	108
	November.....	4,504		September..... <sup>c</sup>	105

<sup>a</sup> See foot-note <sup>b</sup> to Table XXII., page 81.

<sup>b</sup> Excluding unknown month and unknown sex.

<sup>c</sup> Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average number of conceptions occurred, and vice versa.

**TABLE XXIV.**—*Exhibiting, by Months, according to the Returns, the Relation between the Total Number of Conceptions, and the Total Number of Deaths which occurred in the Months of the Years 1881 and 1882 in which were Conceived the Children Born during the Year ending December 31, 1882.*

DEATHS.		CONCEPTIONS. <sup>b</sup>	
Months <sup>a</sup> of 1881 and 1882 of Conceptions of Births in 1882, arranged in order, by total number of deaths, the least first.	Number of Deaths, as Equalized.	Months <sup>a</sup> of 1881 and 1882 of Conceptions of Births in 1882, in order by number, the least first.	Number of Conceptions as Equalized. <sup>a</sup>
Less than the Average Number of Deaths.	January, 1882.....	April..... <sup>c</sup>	2,441
	February, 1882.....	May..... <sup>c</sup>	2,757
	June.....	September.....	2,773
	March, 1882.....	June..... <sup>c</sup>	2,950
	May.....	August.....	2,976
	April.....	October.....	3,044
Average.....	1,602	Average.....	3,083
More than the Average Number of Deaths.	November.....	July..... <sup>c</sup>	3,103
	July.....	February, 1882.....	3,262
	December.....	January, 1882.....	3,318
	October.....	March, 1882.....	3,415
	August.....	November..... <sup>c</sup>	3,457
	September.....	December..... <sup>c</sup>	3,495

<sup>a</sup> Equalized to months of 30.44 days each, excluding unknown month.

<sup>b</sup> See foot-note <sup>b</sup> to Table XXII., page 81.

<sup>c</sup> Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and *vice versa*.



TABLE XXV.—*Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths, the Number of Deaths and the Number of Births Returned from which Conceptions are Estimated, being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

DEATHS.		CONCEPTIONS. <sup>a</sup>	
Months of 1881 and 1882 of Conceptions of Births in 1882, arranged in order by number of Deaths, the least first. Deaths corrected as if enumerated in months of occurrence, and equalized to months of uniform length.		Months of 1881 and 1882 of Conceptions of Births in 1882, estimated from Births Corrected as if enumerated in months of occurrence, and equalized to months of uniform length. Months arranged in order by number, the least first.	
	Number of Deaths as Corrected and Equalized.		Number of Conceptions, as Corrected and Equalized. <sup>b</sup>
Less than the Average Number of Deaths.	June .....	1,908	
	January, 1882 .....	1,966	
	November .....	2,065	
	December .....	2,087	
	May .....	2,169	
	April .....	2,258	
Average .....		2,385	
More than the Average Number of Deaths.	July .....	2,389	
	October .....	2,480	
	February, 1882 .....	2,522	
	March, 1882 .....	2,582	
	August .....	3,060	
	September .....	3,138	
Less than the Average Number of Conceptions.	April .....		3,768
	September .....		3,809
	February, 1882 .....		3,926
	March, 1882 .....		3,993
	October .....		4,077
	January, 1882 .....		4,106
Average .....			4,151
More than the Average Number of Conceptions.	May .....		4,162
	August .....		4,189
	June .....		4,332
	December .....		4,443
	July .....		4,475
	November .....		4,514

<sup>a</sup> See foot-note <sup>b</sup> to Table XXII., page 81.

<sup>b</sup> Excluding unknown month.

<sup>c</sup> Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and less than an average number of conceptions in months in which more than an average number of deaths occurred.

**TABLE XXVI.**—*Exhibiting by Months, the Relation between the Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1881 and 1882; the Number of Deaths and the Number of Births Returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

DEATHS.		CONCEPTIONS. <sup>a</sup>		
Months of 1881 and 1882 of Conceptions of Births in 1882, arranged in order by number of Deaths, least first. Deaths Corrected as if enumerated in months of occurrence, and equalized to months of uniform length.		Months of 1881 and 1882 of Conceptions of Births in 1882, estimated from Births Corrected as if enumerated in months of occurrence, and equalized to months of uniform length. Months arranged in order by number of Males to 100 Females, greatest first.		
	Number of Deaths, as Corrected and Equalized.		Number of Males to 100 Females. Births Corrected and Equalized. <sup>b</sup>	
Less than the Average Number of Deaths.	June .....	1,908	April .....	115
	January, 1882 .....	1,966	December .....	114
	November .....	2,065	October .....	113
	December .....	2,087	July .....	113
	May .....	2,169	June .....	112
	April .....	2,258	Average .....	111
Average .....	2,385			
More than the Average Number of Deaths.	July .....	2,389	May .....	110
	October .....	2,480	November .....	110
	February, 1882 .....	2,522	January, 1882 .....	110
	March, 1882 .....	2,582	March, 1882 .....	109
	August .....	3,060	August .....	108
	September .....	3,138	February, 1882 .....	108
		September .....	105	

<sup>a</sup> See foot-note to Table XXII., page 81.

<sup>b</sup> Excluding births in unknown month and unknown sex.

<sup>c</sup> Exceptions to the proposition that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

TABLE XXVII.—*Exhibiting by Months, according to the Returns, the Relation between the Total Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1881 and 1882, and Born during the Year ending December 31, 1882.*

DEATHS.			CONCEPTIONS. <sup>b</sup>		
Months of 1881 and 1882 of Conceptions of Births in 1882, arranged in order by number of Deaths, the least first.		Number of Deaths as Equalized.	Months <sup>a</sup> of 1881 and 1882 in order by number of Males to 100 Females, greatest first.		Number of Males to 100 Females.
Less than the Average Number of Deaths.	January 1882.....	961	More than the Average Proportion of Males.	December..... <sup>c</sup>	112
	February, 1882.....	1,273		April.....	111
	June.....	1,295		July..... <sup>c</sup>	110
	March, 1882.....	1,347		October..... <sup>c</sup>	110
	May.....	1,431		June.....	109
	April.....	1,448		November..... <sup>c</sup>	108
Average.....		1,602	Average.....		108
More than the Average Number of Deaths.	November.....	1,641	Less than the Average Proportion of Males.	January, 1882..... <sup>c</sup>	108
	July.....	1,670		March, 1882..... <sup>c</sup>	107
	December.....	1,716		May..... <sup>c</sup>	106
	October.....	1,906		February, 1882..... <sup>c</sup>	106
	August.....	2,205		August.....	105
	September.....	2,335		September.....	102

<sup>a</sup> Equalized to months of 30.44 days each, excluding unknown sex and unknown month.

<sup>b</sup> See foot-note <sup>b</sup> to Table XXII., page 81.

<sup>c</sup> Exceptions to the proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

**EXHIBIT N.**—*Births Returned as having occurred in Michigan during the Year 1882, by Sex, and by Months Equalized to 30.44 days each.*

SEX.	Year, 1882.	MONTHS OF BIRTHS, EQUALIZED, 1882.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total.....	* 37,032	2,441	2,757	2,950	3,103	2,976	2,773	3,044	3,457	3,495	3,318	3,262	3,415	41
Males ....	19,181	1,283	1,419	1,537	1,621	1,525	1,400	1,593	1,790	1,841	1,724	1,672	1,763	13
Females..	17,791	1,155	1,335	1,411	1,477	1,446	1,370	1,446	1,663	1,650	1,590	1,579	1,645	24
Unknown	60	3	3	2	5	5	3	5	4	4	4	11	7	4

\* Two males and four females gained in equalizing, making the number shown in this Exhibit six more than the number returned.

**EXHIBIT O.**—*Births Returned as having occurred in Michigan during the Year 1882, by Sex, and by Months Equalized to 30.44 days each, and by Months, the Excess of Males over Females, and the Number of Males to 100 Females. Unknown Sex and unknown month excluded.*

SEX.	Year, 1882.	MONTHS OF BIRTHS, EQUALIZED, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes.....	* 36,935	2,438	2,754	2,948	3,098	2,971	2,770	3,039	3,453	3,491	3,314	3,251	3,408
Males .....	19,168	1,283	1,419	1,537	1,621	1,525	1,400	1,593	1,790	1,841	1,724	1,672	1,763
Females .....	17,767	1,155	1,335	1,411	1,477	1,446	1,370	1,446	1,663	1,650	1,590	1,579	1,645
Excess of Males	1,401	128	84	126	144	79	30	147	127	191	134	93	118
Males to 100 Fe- males.....	108	111	106	109	110	105	102	110	108	112	108	106	107

\* The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown month and of unknown sex. These (minus the 6 gained in equalizing) added to the number shown in this table, make the number as returned by registration officers,—37,028.

**EXHIBIT P.**—*Births Returned as having occurred in Michigan during the Year 1882, by Sex and by Months. Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the Returns, and as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.*

SEX.	Year, 1882.	MONTHS OF BIRTHS, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes...	50,815	3,915	4,310	4,495	4,692	4,292	3,992	4,153	4,583	4,496	4,142	3,938	3,996
Males .....	26,691	2,094	2,256	2,378	2,442	2,233	1,993	2,302	2,401	2,395	2,174	2,042	2,061
Females .....	24,124	1,821	2,054	2,117	2,160	2,059	1,899	1,951	2,181	2,103	1,968	1,896	1,915

**TABLE XXVIII.**—*Exhibiting for the Total Births, for the Twins, Illegiti-  
mates, and Still-Born Children Returned as having been Born in Michigan  
during the Year 1882; the Number of Boys to 100 Girls among such  
Children, distinguishing by Parent-Nativities, thus exhibiting the Influence  
of Parent-Nativity and of other Conditions upon the Sex of Children.*

NATIVITY OF PARENTS, 1882.	BIRTHS IN 1882. <sup>a</sup>		BOYS TO 100 GIRLS.			
	Males.	Females.	Total Births.	Twin Children.	Illegiti- mates.	Still- births.
All nativities .....	19,179	17,787	107.83	107.23	94.16	136.45
Both parents native.....	8,382	7,769	107.89	103.61	.....	138.79
Both parents foreign.....	6,877	6,278	109.54	110.98	.....	121.01
Foreign father and native mother....	2,210	2,143	103.13	92.16	.....	128.57
Foreign mother and native father....	1,131	1,078	104.91	126.09	.....	263.64
One or both parents unknown.....	579	519	111.56	136.45	.....	144.68
Mother. { Native.....	10,686	10,022	106.63	100.00	113.43	136.49
{ Foreign.....	8,639	7,400	106.64	112.83	71.11	133.85
{ Unknown.....	454	365	124.38	175.00	88.10	144.19
Father. { Native.....	9,623	8,937	107.68	107.37	94.44	150.00
{ Foreign.....	9,129	8,466	107.83	106.51	158.33	123.63
{ Unknown.....	427	384	111.20	120.00	87.90	139.53
One or both native .....	11,927	11,190	106.59	103.28	.....	145.68
One or both foreign.....	10,291	9,588	107.33	106.40	.....	133.96
Both unknown.....	302	230	131.31	157.14	.....	138.46
Same country.....	b 15,259	b 14,047	b 108.63	c 103.88	.....	c 128.00
Different countries.....	d 3,341	d 3,221	d 103.73	e 114.74	.....	e 167.35
Same American state or foreign coun- try.....	.....	.....	.....	97.42	.....	114.05
Different American states or foreign country .....	.....	.....	.....	130.93	.....	188.00

<sup>a</sup> Excluding unknown sex.

<sup>b</sup> Includes "Native" and "Foreign."

<sup>c</sup> Includes "Native" and same foreign country.

<sup>d</sup> Includes "Foreign Father and Native Mother," and "Foreign Mother and Native Father."

<sup>e</sup> Includes "Different Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father."

## MARRIAGES, 1882.

---

In 1882 the marriages returned to the State Department were 16,178, as compared with 14,847 in 1881, and 14,149 in 1880, and 13,225 in 1879. These figures represent the marriages as originally returned and published in the reports for each of those years; since that time, however, there have been 667 marriages returned for 1879, 739 for 1880, and 824 for 1881. This shows how frequently the law is violated by persons who are authorized to solemnize marriages, by sending their returns to the county clerk a year or more after they have taken place. This is undoubtedly the result of indifference to the requirements of the law, or from ignorance of those requirements.

The average annual number of marriages, as first returned, for the thirteen years 1870-1882, is 11,875. The excess of marriages over the number as first returned in 1881 is 1,331, and over the average for thirteen years is 4,303. Based upon the population of 1880 there was one marriage to every 101 persons in the State, and the number of marriages to every thousand of the population was 9.90, or 19.80 persons. The estimated population of the State for the year 1882 is 1,746,453; using this as a basis there would be one marriage to every 108 persons, and the number of marriages to every thousand of the estimated population would be 9.26, or 18.52 persons.

There has been a continual increase in the number of marriages returned for every year since 1876, which is an indication of the general prosperity in the condition of the people of Michigan.

The average number of marriages for each of certain specified periods of time, during the year 1882, is as follows:

Total number of marriages.....	16,178.00
Average number per quarter.....	4,044.50
Average number per month.....	1,348.17
Average number per week.....	311.12
Average number per day.....	44.32

In Michigan the last quarter always returns the largest number of marriages, and the year 1882 is no exception to the general rule, there being 5,068 in the fourth quarter, 3,878 in the third quarter, 3,644 in the second quarter, and 3,577 in the first quarter. The number and per cent in each quarter of the year 1882, and also for the years 1874-1881, may be seen in Table I., the number for each year being corrected for additional returns up to December 17, 1883. The additional number of marriages for 1882 will doubtless be returned with those for 1883, and will increase the number in each quarter of the year.



TABLE I.—*Marriages by Quarters of the Year, showing Number and Per Cent in each Quarter of the Year for each of the Years 1874 to 1882, inclusive, Corrected for Additional Returns up to December 17, 1883.*

TOTAL AND MONTHS WITH WHICH QUARTERS END.	1874.		1875.		1876.		1877.		1878.		1879.		1880.		1881.		1882.	
	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals .....	12,289	100.00	11,879	100.00	11,913	100.00	11,839	100.00	12,880	100.00	13,292	100.00	14,888	100.00	15,671	100.00	16,178	100.00
March .....	2,932	24.02	2,600	21.89	2,713	22.77	2,713	22.80	2,969	23.28	3,105	22.35	3,341	22.44	3,447	21.99	3,577	22.11
June .....	2,604	21.19	2,665	22.41	2,644	22.26	2,536	21.50	2,691	20.89	2,897	20.85	3,252	21.84	3,455	22.03	3,644	22.52
September .....	2,938	23.91	2,787	23.46	2,869	24.08	2,852	23.97	3,038	23.56	3,273	23.56	3,626	24.36	3,767	24.04	3,878	23.97
December .....	3,784	30.79	3,825	32.20	3,681	30.90	3,764	31.63	4,141	32.15	4,613	33.21	4,666	31.34	4,966	31.90	5,068	31.33
Unknown .....	11	.00	2	.01	6	.05	12	.10	11	.09	4	.03	3	.02	3	.02	11	.07
Average .....	3,072	25.00	2,970	25.00	2,978	25.00	2,975	25.00	3,220	25.00	3,473	25.00	3,722	25.00	3,918	25.00	4,045	25.00

\* Including marriages in unknown quarter of the year.

Exhibit A shows the number and per cent of marriages as originally returned and published in the Reports for each of the years 1877-1882. It differs from Table I. inasmuch as it does not contain the additional number of marriages which have been added to the years previous to 1882. By comparing the Exhibit with the Table it may be seen how frequently the marriage law is violated in this State.

MARRIAGES BY QUARTERS.

91

EXHIBIT A.—*Marriages by Quarters of the Year, showing number and Per Cent in each Quarter of the Year, for each of the Years 1874 to 1882, inclusive, as Originally Returned and published in Reports.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1874.		1875.		1876.		1877.		1878.		1879.		1880.		1881.		1882.	
	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals.....	11,041	100.00	11,055	100.00	10,838	100.00	11,000	100.00	12,921	100.00	13,925	100.00	14,149	100.00	14,847	100.00	16,178	100.00
March.....	2,832	25.65	2,519	22.79	2,599	23.94	2,633	23.92	2,901	22.74	3,030	22.58	3,261	23.05	3,376	22.74	3,577	22.11
June.....	2,483	22.49	2,457	23.13	2,474	22.79	2,422	22.00	2,606	21.32	2,806	21.22	3,151	22.27	3,368	22.69	3,644	22.52
September..	2,713	24.57	2,625	23.74	2,677	24.65	2,646	24.03	2,906	23.78	3,133	23.60	3,472	24.54	3,630	24.45	3,878	23.97
December...	3,003	27.20	3,353	30.33	3,105	28.60	3,298	29.96	3,798	31.08	4,243	32.08	4,262	30.12	4,471	30.11	5,068	31.33
Unknown....	10	.09	1	.01	3	.03	10	.09	10	.08	4	.03	3	.02	2	.01	11	.07
Average.....	2,760	25.00	2,764	25.00	2,715	25.00	2,752	25.00	3,055	25.00	3,306	25.00	3,537	25.00	3,712	25.00	4,045	25.00

\* The number in unknown quarter of year included.

TABLE II.—*Marriages by Months, Arranged in Order by Number, Months Corrected for additional returns*

ORDER.	1874.			1875.			1876.			1877.			1878.		
	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.
	Total	12,289	100.00	Total	11,879	100.00	Total	11,913	100.00	Total	11,899	100.00	Total	12,890	100.00
1	Dec. .	1,370	11.15	Dec. .	1,311	11.04	Dec. .	1,257	10.55	Dec. .	1,281	10.77	Oct. . .	1,406	10.91
2	Nov. .	1,246	10.14	Oct. . .	1,273	10.72	Oct. . .	1,255	10.54	Oct. . .	1,250	10.50	Dec. .	1,398	10.85
3	Oct. . .	1,168	9.51	Nov. .	1,241	10.45	Nov. .	1,169	9.81	Nov. .	1,233	10.36	Nov. .	1,337	10.38
4	Sept. .	1,048	8.53	July .	999	8.41	July .	1,060	8.90	Sept. .	1,112	9.35	Sept. .	1,190	9.24
5	July .	1,015	8.26	Sept. .	990	8.33	Sept. .	1,018	8.53	Jan. . .	976	8.20	Jan. . .	1,092	8.48
6	Jan. . .	997	8.11	Apr. . .	938	7.89	Apr. .	963	8.08	July .	949	7.98	Mar. .	1,022	7.93
7	Feb. . .	984	8.00	Mar. .	921	7.75	Jan. . .	959	8.05	Apr. .	945	7.94	May. .	961	7.46
8	Mar. . .	971	7.90	May. .	909	7.65	Feb. . .	882	7.40	Mar. .	883	7.42	Apr. .	952	7.39
9	Apr. . .	967	7.87	Jan. . .	870	7.32	May. .	878	7.37	May. .	808	7.29	July .	947	7.35
10	Aug. .	875	7.12	June .	818	6.89	Mar. . .	872	7.32	Feb. . .	854	7.18	Aug. .	901	7.00
11	May. .	847	6.89	Feb. . .	809	6.81	June .	803	6.74	Aug. .	791	6.65	Feb. . .	885	6.87
12	June .	790	6.43	Aug. .	798	6.72	Aug. .	791	6.64	June .	745	6.28	June .	778	6.04
	Unk. .	11	.09	Unk. .	2	.02	Unk. .	6	.05	Unk. .	12	.10	Unk. .	11	.09
	Av. . . . <sup>a</sup>	1,024	8.33	Av. . . . <sup>a</sup>	980	8.33	Av. . . . <sup>a</sup>	993	8.33	Av. . . . <sup>a</sup>	992	8.33	Av. . . . <sup>a</sup>	1,073	8.33

<sup>a</sup> Includes those for unknown month.

The foregoing table shows the number and percentage of marriages in Michigan in each month of the year 1882, together with the number and percentage in each month for the years 1874-1880. It will be seen that the order of proportion followed the rule of previous years, that is, the largest number of marriages was solemnized during the months of October, November, and December.

# MARRIAGES BY MONTHS.

93

*having the greatest number first, for the Years 1874 to 1882, inclusive, up to December 17, 1883.*

1879.			1880.			1881.			1882.		
Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.
Total....	13,892	100.00	Total....	14,888	100.00	Total..	15,671	100.00	Total..	16,178	100.00
Oct.....	1,583	11.39	Nov.....	1,617	10.88	Dec....	1,692	10.80	Nov....	1,727	10.68
Nov.....	1,548	11.14	Dec.....	1,572	10.56	Nov....	1,654	10.55	Oct....	1,709	10.56
Dec.....	1,482	10.67	Oct.....	1,477	9.92	Oct....	1,633	10.55	Dec....	1,632	10.09
Sept.....	1,272	9.16	Sept.....	1,303	9.36	Sept..	1,402	8.95	Sept..	1,429	8.83
Jan.....	1,080	7.77	Jan.....	1,181	7.93	July ..	1,277	8.15	July...	1,323	8.18
July.....	1,073	7.72	Apr.....	1,164	7.82	May...	1,188	7.58	Apr....	1,305	8.07
Mar.....	1,032	7.43	July....	1,158	7.78	Jan....	1,187	7.57	Jan....	1,240	7.66
May.....	1,022	7.36	Mar.....	1,100	7.39	Mar....	1,176	7.50	May....	1,222	7.55
Feb.....	993	7.15	Aug....	1,075	7.22	Apr....	1,142	7.29	Mar....	1,202	7.43
Apr.....	990	7.13	Feb.....	1,060	7.12	June ..	1,125	7.18	Feb....	1,135	7.02
Aug....	928	6.68	May....	1,057	7.10	Aug....	1,088	6.94	Aug....	1,126	6.96
June....	885	6.37	June....	1,031	6.92	Feb....	1,064	6.92	June ..	1,117	6.90
Unk....	4	.06	Unk....	3	.02	Unk....	3	.02	Unk....	11	.07
Av.....*	1,158	8.33	Av.....*	1,241	8.33	Av.....*	1,306	8.33	Av.....*	1,348	8.33

\* Includes those for unknown month.

In Exhibit B the number of marriages in Michigan is shown for each of the years 1874-1882, by months, as returned, and as equalized to uniform length. In this Exhibit, all the years are corrected for additional returns up to December 17, 1883, which has increased the number of marriages in the several years over that shown in the corresponding exhibit in the preceding Report.

**EXHIBIT B.—Marriages Returned as having been Solemnized in Michigan during the Years 1874 to 1882, inclusive, Corrected for additional returns up to December 17, 1883, and equalized to Months of 30.44 days each.**

YEARS.	TOTAL.	MONTHS.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1874	12,289	997	984	971	967	847	790	1,015	875	1,048	1,168	1,246	1,370	11
	.....	-56	+244	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56	.....
	+18	-18	+86	-18	+14	-15	+12	-18	-12	+15	-21	+18	-25	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1875	12,307	979	1,070	953	981	832	802	997	893	1,063	1,147	1,264	1,345	11
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1876	11,880	854	879	904	932	893	830	981	784	1,005	1,250	1,259	1,387	2
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1877	11,913	920	882	872	963	878	803	1,000	791	1,018	1,255	1,169	1,257	6
	.....	-56	+144	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56	.....
	-24	-17	+44	-16	+11	-16	+12	-17	-14	+15	-23	+17	-23	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1878	11,880	942	926	856	977	802	815	1,043	777	1,033	1,232	1,186	1,234	6
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1879	11,820	976	854	883	945	868	745	949	791	1,112	1,250	1,233	1,281	12
	.....	-56	+244	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56	.....
	+6	-18	+74	-16	+14	-16	+11	-17	-14	+16	-23	+18	-23	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1880	11,905	958	928	897	950	852	766	932	777	1,128	1,227	1,251	1,268	12
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

**Marriages,**

**Marriages as returned**

**Days and hundredths by which the months should be in-**

**creased or diminished to equalize them to uniform length**

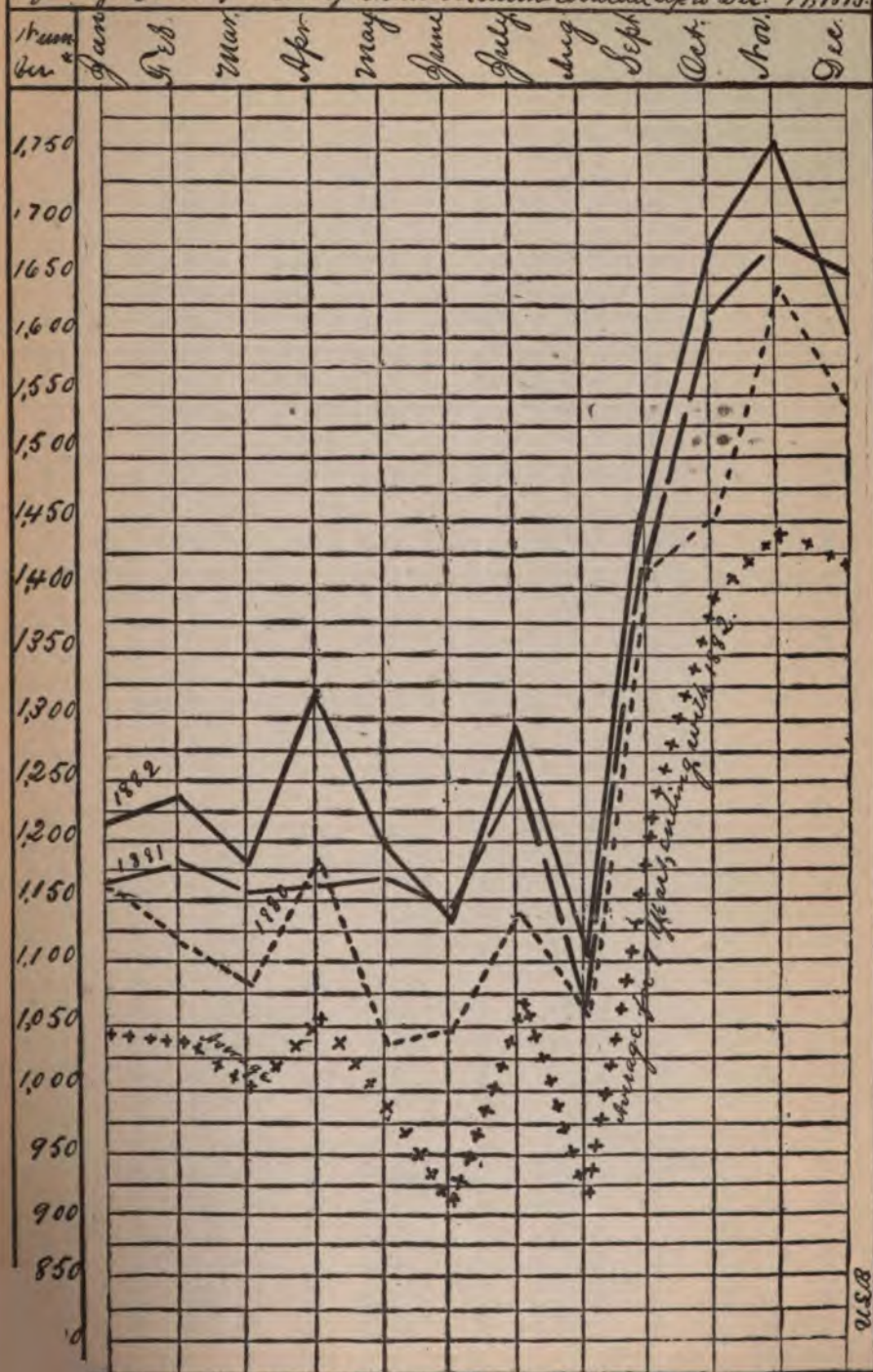
**Number by which the marriages should be increased or di-**

**minished to equalize them to months of uniform length.**

**Marriages equalized to months of uniform length.**

# Diagram No. 1.

Marriages in Michigan during the years 1880, 1881, and 1882, and Average for 9 years, ending with 1882, by month equalized to uniform length from Returns collected up to Dec. 77, 1883.



1" = 150 to the inch





<b>Marrriages as returned</b> Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.	12,880 ----- + 1	1,692 -56 -20 + 1	885 + 2.44 + 77	1,022 -56 -18	922 + 44 + 14	961 -56 -17	778 -56 + 11	947 -56 -17	901 -56 -16	1,190 + 44 + 17	1,406 -56 -25	1,337 + 44 + 20	1,398 -56 -25	11
<b>Marrriages equalized to months of uniform length</b> -----	12,881	1,072	962	1,004	966	944	789	930	885	1,207	1,381	1,357	1,373	11
<b>Marrriages as returned</b> Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.	13,892 ----- + 8	1,080 -56 -20 + 8	963 + 2.44 + 87	1,022 -56 -19	990 + 44 + 15	1,022 -56 -18	885 + 44 + 13	1,073 -56 -19	928 -56 -17	1,272 + 44 + 19	1,583 -56 -20	1,548 + 44 + 23	1,482 -56 -27	4
<b>Marrriages equalized to months of uniform length</b> -----	13,900	1,060	1,080	1,013	1,005	1,004	898	1,054	911	1,291	1,554	1,571	1,455	4
<b>Marrriages as returned</b> Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.	14,888 ----- -26	1,181 -56 -21	1,060 + 1.44 + 53	1,100 -56 -20	1,164 + 44 + 17	1,037 -56 -10	1,031 + 44 + 15	1,138 -56 -21	1,075 -56 -19	1,303 + 44 + 20	1,477 -56 -27	1,617 + 44 + 24	1,572 -56 -28	3
<b>Marrriages equalized to months of uniform length</b> -----	14,892	1,160	1,113	1,080	1,181	1,038	1,046	1,137	1,056	1,413	1,450	1,641	1,544	3
<b>Marrriages as returned</b> Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.	15,671 ----- + 6	1,187 -56 -21	1,084 + 2.44 + 94	1,176 -56 -21	1,142 + 44 + 17	1,188 -56 -21	1,125 + 44 + 17	1,277 -56 -23	1,088 -56 -20	1,402 + 44 + 21	1,633 -56 -30	1,634 + 44 + 24	1,692 -56 -31	3
<b>Marrriages equalized to months of uniform length</b> -----	15,677	1,166	1,178	1,155	1,169	1,167	1,142	1,254	1,068	1,423	1,623	1,678	1,661	3
<b>Marrriages as returned</b> Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.	16,178 ----- + 10	1,240 -56 -22	1,135 + 2.44 + 99	1,202 -56 -22	1,305 + 44 + 19	1,222 -56 -22	1,117 + 44 + 16	1,323 -56 -24	1,196 -56 -20	1,429 + 44 + 21	1,700 -56 -31	1,727 + 44 + 25	1,632 -56 -29	11
<b>Marrriages equalized to months of uniform length</b> -----	16,188	1,218	1,234	1,180	1,324	1,200	1,133	1,269	1,106	1,450	1,678	1,752	1,603	11

Table III. shows the number of marriages, by months, as returned from each county in the State during the year 1882. Nearly all the counties show an increase over the number returned for 1881.

TABLE III.—*Distinguishing, by Counties and by Months, the Number of Marriages returned as having been solemnized in Michigan during the Year ending December 31, 1882.*

STATE AND COUNTIES.	Year, 1882.	MONTHS, 1882.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE .....	16,178	1,240	1,135	1,202	1,305	1,222	1,117	1,323	1,126	1,429	1,709	1,727	1,632	11
Alcona .....	22	1	-----	3	1	3	2	5	-----	1	3	2	1	-----
Allegan .....	397	26	23	32	45	29	26	29	23	32	34	49	49	-----
Alpena .....	113	4	6	3	9	6	8	23	14	6	14	14	6	-----
Antrim .....	62	4	5	4	2	9	5	6	2	3	8	6	8	-----
Baraga .....	12	-----	2	1	2	2	-----	-----	1	-----	2	2	-----	-----
Barry .....	199	13	14	20	15	14	7	17	13	15	19	23	29	-----
Bay .....	336	30	21	21	27	26	25	36	29	32	37	31	21	-----
Benzie .....	31	4	3	1	5	1	1	4	2	2	1	5	2	-----
Berrien .....	546	48	32	41	38	40	31	32	44	64	67	50	58	1
Branch .....	321	28	24	23	34	19	23	15	18	33	34	38	30	2
Calhoun .....	341	29	27	36	23	24	21	19	17	29	30	46	40	-----
Cass .....	189	2	4	16	18	16	21	17	15	23	25	25	7	-----
Charlevoix ..	72	9	3	2	6	2	7	13	6	4	2	6	12	-----
Cheboygan ..	50	9	3	3	1	5	5	-----	3	5	11	2	3	-----
Chippewa...	49	4	2	2	4	10	1	7	4	6	4	3	2	-----
Clare .....	50	3	4	3	3	9	3	2	3	2	6	8	3	1
Clinton .....	201	16	17	17	17	16	12	17	11	14	25	29	10	-----
Crawford...	14	1	-----	1	3	3	-----	-----	1	2	1	-----	2	-----
Delta .....	96	3	4	6	6	5	8	7	8	7	15	17	10	-----
Eaton .....	246	14	19	37	23	16	11	12	11	24	22	29	28	-----
Emmet .....	78	8	8	6	6	4	5	5	9	4	9	6	8	-----
Genesee .....	346	31	26	28	25	29	18	27	21	31	45	37	30	-----
Gladwin...	6	-----	1	1	3	-----	-----	-----	-----	1	-----	-----	-----	-----
Gr. Traverse	88	4	3	8	7	9	3	9	9	20	7	5	4	-----
Gratiot .....	213	11	10	21	19	13	12	30	15	20	24	20	18	-----
Hillsdale...	413	37	25	31	42	27	24	29	20	31	54	39	53	1
Houghton...	218	10	12	6	11	27	20	20	25	19	33	23	12	-----
Huron .....	114	10	5	7	9	10	7	9	4	11	20	16	6	-----
Ingham .....	313	35	14	21	20	20	24	22	20	22	38	35	42	-----

TABLE III.—CONTINUED.—*Marriages, by Counties, by Months.*

COUNTIES.	Year, 1882.	MONTHS, 1882.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Ionia.....	275	20	30	22	20	15	15	21	16	18	42	28	28	.....
Iosco.....	71	2	5	5	6	8	3	13	7	6	3	8	5	.....
Isabella.....	96	9	8	12	9	6	11	12	3	3	9	6	8	.....
Isle Royal.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jackson.....	364	32	33	40	28	25	23	25	25	33	30	40	30	.....
Kalamazoo.....	297	34	27	34	20	25	22	19	16	24	33	33	10	.....
Kalkaska.....	32	2	2	1	6	2	2	2	1	3	4	3	4	.....
Kent.....	922	68	72	69	71	84	72	87	63	82	66	89	98	1
Keweenaw.....	28	4	2	.....	3	2	.....	4	3	1	4	.....	5	.....
Lake.....	37	2	1	2	2	1	2	7	3	4	7	2	4	.....
Lapeer.....	227	15	15	20	15	20	12	24	10	22	28	24	22	.....
Leelanaw.....	43	1	1	2	5	2	4	6	4	3	2	3	10	.....
Lenawee.....	504	40	38	46	43	33	22	34	37	48	52	46	56	.....
Livingston.....	175	13	21	15	17	12	13	14	6	12	16	18	18	.....
Mackinac.....	25	.....	1	.....	.....	.....	.....	2	6	3	5	5	3	.....
Macomb.....	248	11	24	17	22	16	12	14	14	24	29	32	33	.....
Manistee.....	196	18	14	10	12	21	14	17	15	15	20	18	22	.....
Manitou.....	7	3	.....	.....	2	.....	.....	.....	1	.....	1	.....	.....	.....
Marquette.....	315	25	11	10	21	19	34	30	28	37	45	32	23	.....
Mason.....	111	6	4	6	14	11	9	7	8	11	12	11	12	.....
Mecosta.....	192	16	12	12	9	13	15	13	21	23	24	17	17	.....
Menominee.....	189	11	11	7	8	13	21	13	14	21	20	26	23	1
Midland.....	55	5	2	3	3	2	5	2	3	3	7	6	14	.....
Missaukee.....	15	.....	.....	1	4	3	.....	1	2	.....	1	1	2	.....
Monroe.....	349	27	27	26	35	21	20	26	22	29	40	44	32	.....
Montcalm.....	346	21	38	30	32	19	17	38	23	20	34	39	35	.....
Montmorency.....	3	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....
Muskegon.....	370	23	22	19	27	18	27	40	31	29	38	49	47	.....
Newaygo.....	138	13	11	2	7	13	6	19	13	17	10	9	18	.....
Oakland.....	369	20	26	31	22	17	17	12	24	31	37	32	40	.....
Oceana.....	106	6	7	9	5	6	9	10	5	9	12	20	8	.....
Ogemaw.....	13	.....	2	2	.....	.....	2	3	1	.....	.....	1	2	.....
Ontonagon.....	17	.....	2	.....	2	1	2	3	3	1	3	.....	.....	.....
Osceola.....	145	9	6	10	12	10	7	12	14	16	13	19	17	.....
Oscoda.....	6	.....	.....	.....	2	1	.....	.....	.....	1	1	.....	1	.....
Otsego.....	25	1	.....	3	3	3	.....	2	4	.....	4	.....	5	.....
Ottawa.....	373	28	25	24	38	33	22	24	28	34	39	39	38	1

TABLE III.—CONTINUED.—*Marriages, by Counties, by Months.*

COUNTIES.	Year, 1882.	MONTHS, 1882.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Presque Isle..	31	6	2	.....	3	3	1	4	2	.....	1	5	4	.....
Roscommon..	8	.....	.....	1	1	2	.....	.....	.....	1	.....	1	2	.....
Saginaw.....	604	53	36	36	51	50	41	58	39	54	58	66	62	.....
Sanilac.....	201	13	15	8	20	16	18	21	15	15	14	16	29	1
Schoolcraft..	19	.....	2	1	.....	.....	1	2	4	5	2	1	1	.....
Shiawassee..	197	23	10	16	15	16	14	9	12	16	16	25	25	.....
St. Clair.....	422	32	30	26	37	28	31	35	34	44	45	40	40	.....
St. Joseph...	326	26	29	29	22	18	16	29	21	20	35	41	40	.....
Tuscola... ..	257	13	18	18	14	26	16	27	14	26	41	26	18	.....
Van Buren...	287	10	22	35	23	29	18	29	16	19	21	26	39	.....
Washtenaw..	384	29	23	43	32	27	22	20	31	24	33	43	51	1
Wayne.....	1,576	140	127	96	128	130	160	112	109	145	153	153	122	1
Wexford.....	106	7	4	4	10	8	9	9	6	13	9	12	15	.....

## COLOR OF PERSONS MARRIED.

For the year 1882, the marriage-rate appears slightly greater among the White inhabitants than among the Black and Mulatto races, and least among the Indians. By reference to Exhibit 9, and Table XVII., of Births, it will be seen that the illegitimate birth-rate is greatest among the Indians, and here it is seen that the marriage-rate is smallest among the Indians. In computing the marriage-rate, the population of Michigan in 1880 is used with the marriages in 1882, and as the population has probably increased, the rates here given are not entirely perfect.

Table V. shows the color of persons married in 1882 in each county of the State.

TABLE IV.—*Exhibiting, by Color and by Sex, the Number of Marriages, and the Number and Per Cent of Total Number of Persons Married in Michigan during the Year 1882, according to the Returns; and the Per Cent of Persons Married in 1882 to Population in 1880.*

COLOR,—1882.	SEX.	Population June 1, 1880, Represent- ed by Marriages in 1882.	Number of Marriages, 1882.	PERSONS MARRIED, 1882.		Per Cent of Persons Married in 1882 to Popula- tion June 1, 1880, by Sex and Color.	Number of Persons who Married those of another Color.
				Number.	Per Cent of Total.		
All Colors.....	Total....	* 1,636,882	16,178	32,356	100.00	1.98	53
	Males.....	802,324	.....	16,178	50.00	1.88	27
	Females.....	774,558	.....	16,178	50.00	2.09	26
White.....	Total....	1,614,505	15,956	31,914	98.63	1.98	13
	Males.....	850,765	.....	15,958	49.32	1.88	7
	Females.....	763,740	.....	15,956	49.31	2.09	6
Black.....	Total....	.....	90	175	.53	.....	13
	Males.....	.....	.....	90	.27	.....	9
	Females.....	.....	.....	85	.26	.....	4
Mulatto.....	Total....	.....	57	117	.37	.....	17
	Males.....	.....	.....	57	.18	.....	7
	Females.....	.....	.....	60	.19	.....	10
Indian.....	Total....	7,249	54	111	.35	1.53	10
	Males.....	3,696	.....	54	.17	1.46	4
	Females.....	3,553	.....	57	.18	1.60	6
One or Both Unknown.....	Total....	.....	21	39	.12	.....	.....
	Males.....	.....	.....	19	.06	.....	.....
	Females.....	.....	.....	20	.06	.....	.....
Black and Mulatto.....	Total....	15,100	147	292	.90	1.93	30
	Males.....	7,835	.....	147	.45	1.88	16
	Females.....	7,265	.....	145	.45	2.00	14

\* Includes 28 Asiatics.

**TABLE V.**—*Exhibiting for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1882, the Number of Couples of White Persons, and by Color, the Number of Marriages where one or both parties were other than White.*

STATE AND COUNTIES.	Marriages, 1882.	COLOR OF PERSONS MARRIED, 1882, STATED BY COUPLES.						
		White.	Black.	Mulatto.	Indian.	Female Unknown, Male White.	Male Unknown, Female White.	Both Unk.
State.....	16,178	a 15,956	b 90	c 57	d 54	2	1	18
Alcona.....	22	22						
Allegan.....	397	e 394	f 2			1		
Alpena.....	113	113						
Antrim.....	62	61			1			
Baraga.....	12	9			3			
Barry.....	199	g 198		1				
Bay.....	336	331			5			
Benzie.....	31	31						
Berrien.....	546	530	h 7	3		1	1	4
Branch.....	321	321						
Calhoun.....	341	335	i 3	j 3				
Cass.....	189	188		1				
Charlevoix.....	72	72						
Cheboygan.....	50	49			k 1			
Chippewa.....	49	49						
Clare.....	50	50						
Clinton.....	201	201						
Crawford.....	14	14						
Delta.....	96	90			l 6			
Eaton.....	246	246						
Emmet.....	78	m 70		n 1	o 7			
Genesee.....	346	343	3					
Gladwin.....	6	6						
Grand Traverse.....	88	88						
Groton.....	213	213						

a Includes 1 couple, male White, female Indian; 5 couples, male White, female White and Indian; and 1 couple, male White, female Mulatto.

b Includes 21 couples "Colored," 16 couples "African;" 8 couples, male Black, female Mulatto; and 1 couple, male Black, female White.

c Includes 4 couples, male Mulatto, female Black; and 3 couples, male Mulatto, female White.

d Includes 4 couples White and Indian; 1 couple, male and Indian, female White; 1 couple, male, female Mulatto; 1 couple, male Indian, female White; and 1 couple, male Indian, female and Indian.

e 1 couple, male White, female Indian.

f 2 couples "African."

g 1 couple, male White, female White and Indian.

h 3 couples "Colored."

i 3 couples "African."

j 1 couple, male Mulatto, female Black.

k 1 couple White and Indian.

l 1 couple, male White and Indian, female White.

m 1 couple, male White, female Mulatto.

n 1 couple, male Mulatto, female White.

o 2 couples White and Indian.



TABLE V.—CONTINUED.—*Marriages in 1882, by Counties, by Color.*

COUNTIES.	Marriages, 1882.	COLOR OF PERSONS MARRIED, 1882, STATED BY COUPLES.						
		White.	Black.	Mulatto.	Indian.	Female Unknown, Male White.	Male Unknown, Female White.	Both Unk.
Hillsdale.....	413	413						
Houghton.....	218	218						
Huron.....	114	114						
Ingham.....	313	309	a 2	1	b 1			
Ionia.....	275	275						
Iosco.....	71	71						
Isabella.....	96	95			1			
Jackson.....	364	349	c 13	2				
Kalamazoo.....	297	289	d 3	5				
Kalkaska.....	32	32						
Kent.....	922	911	e 6	3				2
Keweenaw.....	28	28						
Lake.....	37	37						
Lapeer.....	227	227						
Leelanaw.....	43	29			f 14			
Lenawee.....	504	502	g 2					
Livingston.....	175	174	h 1					
Mackinac.....	25	i 23			j 2			
Macomb.....	248	248						
Manistee.....	196	196						
Manitou.....	7	7						
Marquette.....	315	k 312	1 2	1				
Mason.....	111	107	1	1	2			
Mecosta.....	192	191	1 1					
Menominee.....	189	189						
Midland.....	55	54		1				
Missaukee.....	15	15						
Monroe.....	349	349						
Montcalm.....	346	344	1 1					1
Montmorency.....	3	3						
Muskegon.....	370	369			1			

a 1 couple, male Black, female Mulatto.  
 b 1 couple, male Indian, female Mulatto.  
 c 2 couples "African;" 1 couple "Colored;" and  
 2 couples, male Black, female Mulatto.  
 d 2 couples, male Black, female Mulatto.  
 e 4 couples "Colored."  
 f 1 couple, male Indian, female White; and 1  
 couple, male Indian, female White and Indian.  
 g 2 couples "African."  
 h 1 couple "Colored."  
 i 3 couples, male White, female White and In-  
 dian.  
 j 2 couples White and Indian.  
 k 1 couple, male White, female White and In-  
 dian.  
 l 1 couple "African."

TABLE V.—CONTINUED.—*Marriages in 1882, by Counties, by Color.*

COUNTIES.	Marriages, 1882.	COLOR OF PERSONS MARRIED, 1882, STATED BY COUPLES.						
		White.	Black.	Mulatto.	Indian.	Female Unknown, Male White.	Male Unknown, Female White.	Both Unk.
Newaygo .....	138	138	-----	-----	-----	-----	-----	-----
Oakland .....	309	302	1	-----	-----	-----	-----	6
Oceana .....	106	102	-----	-----	4	-----	-----	-----
Ogemaw .....	13	13	-----	-----	-----	-----	-----	-----
Ontonagon .....	17	16	-----	-----	a 1	-----	-----	-----
Osceola .....	145	145	-----	-----	-----	-----	-----	-----
Oscoda .....	6	6	-----	-----	-----	-----	-----	-----
Otsego .....	25	25	-----	-----	-----	-----	-----	-----
Ottawa .....	373	371	-----	-----	2	-----	-----	-----
Presque Isle .....	31	31	-----	-----	-----	-----	-----	-----
Roscommon .....	8	8	-----	-----	-----	-----	-----	-----
Saginaw .....	604	594	3	b 6	1	-----	-----	-----
Sanilac .....	201	200	-----	1	-----	-----	-----	-----
Schoolcraft .....	19	19	-----	-----	-----	-----	-----	-----
Shiawassee .....	197	197	-----	-----	-----	-----	-----	-----
St. Clair .....	422	417	2	2	1	-----	-----	-----
St. Joseph .....	326	323	1	2	-----	-----	-----	-----
Tuscola .....	257	257	-----	-----	-----	-----	-----	-----
Van Buren .....	287	281	3	2	1	-----	-----	-----
Washtenaw .....	384	365	c 7	d 8	-----	-----	-----	4
Wayne .....	1,576	1,536	e 26	f 13	-----	-----	-----	1
Wexford .....	106	106	-----	-----	-----	-----	-----	-----

a 1 couple White and Indian.

b 1 couple, male Mulatto, female White.

c 2 couples, male Black, female Mulatto.

d 2 couples, male Mulatto, female Black.

e 12 couples "Colored;" 4 couples "African;"  
1 couple, male Black, female White; and 1 couple,  
male Black, female Mulatto.f 1 couple, male Mulatto, female White; and 1  
couple, male Mulatto, female Black.

## NATIVITY OF PERSONS MARRIED.

Exhibit 1 is designed to show the number of marriages, according to the nativity of the parties, for the year 1882. It is seen that 9,407 native-born bridegrooms married brides native of this country, 1,411 married foreign-born brides, and 58 married brides of unknown nativity, making a total of 10,876 native-born bridegrooms. Of the native-born brides, 9,407 married native-born males, 2,017 married foreign-born males, and 27 married males of unknown nativity, making a grand total of 11,451 native-born brides. The number of foreign-born bridegrooms and brides may be read in a similar manner.

Exhibit 1 also shows that 67.23 per cent of the males and 70.78 per cent of the females married in 1882 were native-born, that 32.22 per cent of the males and 28.37 per cent of the females were foreign-born. As compared with the years 1880 and 1881, the proportion of native-born males and females shows a decrease from year to year, while the proportion of foreign-born males and females shows a corresponding increase. For instance, the per cent of native-born males in 1880 was 70.38; in 1881, 68.12; and in 1882, 67.23. Of the foreign-born males, the per cent in 1880 was 28.44; in 1881, 30.96; and in 1882, 32.22. The per cent of native-born females in 1880 was 75.43; in 1881, 72.30; and in 1882, 70.38. Of foreign-born females, the per cent in 1880 was 22.75; in 1881, 26.20; and in 1882, 28.37.

The cause of this may possibly be found in the large influx of immigrants of marriageable age from foreign countries during the last few years, which has added largely to the number of marriages.

The increase in the mixed marriages from year to year is also worthy of notice. The term "mixed" is where one party is of native and the other of foreign birth.

EXHIBIT 1.—*By Nativity, the Number and Per Cent of Brides and of Bridegrooms Returned as having been Married in Michigan during the Year ending December 31, 1882, and by Number, the manner of their Union by Nativity.*

BRIDEGROOMS AND BRIDES, NATIVITY SPECIFIED.		BRIDES, 1882.			BRIDEGROOMS, 1882.	
		Native-born.	Foreign-born.	Unknown.	Total of each Nativity, and of all Nativities.	Per Cent of each Nativity.
Bridegrooms...	{ Native-born .....	9,407	1,411	58	10,876	67.23
	{ Foreign-born .....	2,017	3,173	23	5,213	32.22
	{ Unknown .....	27	6	56	89	.55
Brides .....	{ Whole No. of each nativity, and total	11,451	4,590	137	16,178	-----
	{ Per cent of each nativity, and total.	70.78	28.37	.85	-----	100.00





## AGES OF PERSONS MARRIED.

The average age of persons married in Michigan, by nativity, for each of the years 1876-1882 may be seen in the following exhibit. The average age of brides and grooms shows a remarkable uniformity from year to year; about the only change worthy of note in the year 1882 is a slight advance over that of previous years.

EXHIBIT C.—*By Nativity, the Average Age of Persons Married in Michigan in 1876-1882, inclusive, according to the Returns.*

NATIVITY OF PERSONS MARRIED.	1876.		1877.		1878.		1879.		1880.		1881.		1882.	
	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.
All Nativities.....	28.19	23.05	28.25	23.06	28.01	22.91	28.01	23.00	28.08	23.20	28.09	23.20	28.17	23.39
Native.....	27.64	22.53	27.76	22.59	27.46	22.54	27.48	22.65	27.50	22.82	27.49	22.83	27.69	23.01
Foreign.....	29.54	24.82	29.53	24.63	29.51	24.28	29.42	24.28	29.29	24.42	29.33	24.20	29.17	24.32
Unknown.....	27.94	23.32	27.75	24.36	28.82	23.62	28.00	24.33	28.31	23.37	31.43	23.83	28.70	23.85

Table VII. contains much that is valuable and worthy of study. It shows the total number of persons married in Michigan in 1882, and the percentages of the sexes married in the different divisions of age.

In the class of females married between twenty and twenty-five years of age, the proportions show a gradual increase from 35.68 per cent in 1876 to 40.67 per cent in 1881; in 1882, however, the percentage, in that period of life to the whole number of females married during the year, dropped back to 38.86 per cent.

The proportion of males between twenty and twenty-five, for the same years, has not changed very much from year to year, it being 40.60 per cent in 1876 and 40.02 per cent in 1882.

The proportion of males, married in the various periods of age above twenty-five, has increased slightly for the same series of years.

The proportion of females, married under twenty years of age, has decreased from 38.20 per cent in 1877 to 32.90 per cent in 1882. The proportion of males, married under 20, has also decreased but in not so marked a degree as the females.

The general tendency, therefore, of the people of Michigan seems to be to postpone the marriage relation to a more advanced age of life.

TABLE VII.—By Sex, and Periods of Age, the Number and Per Cent of Total Number of Persons Married at each Age and Period of Age, during the Year 1882; and the Per Cent of each Sex at each Age and Period of Age to the Total Number of both Sexes.

AGES IN YEARS AND PERIODS.	MARRIAGES, 1882.						
	Total Number of Persons Married, 1882.	MALES.			FEMALES.		
		Number Married.	Per Cent of Total Marri- ages.	Per Cent of Persons Married at Correspond- ing Ages.	Number Married.	Per Cent of Total Marri- ages.	Per Cent of Persons Married at Correspond- ing Ages.
All Ages.....	32,356	16,178	100.00	50.00	16,178	100.00	50.00
12.....	1				1	.01	100.00
13.....	2				2	.01	100.00
14.....	23				23	.14	100.00
15.....	142				142	.88	100.00
16.....	885	2	.01	.23	883	5.46	99.77
17.....	1,120	10	.06	.89	1,110	6.86	99.11
18.....	1,746	94	.58	5.38	1,652	10.21	94.62
19.....	1,779	269	1.66	15.12	1,510	9.33	84.88
20.....	2,214	633	3.91	28.50	1,581	9.77	71.41
21 to 25.....	10,547	5,841	36.11	55.38	4,706	29.09	44.62
25 to 30.....	7,140	4,874	30.13	68.26	2,266	14.01	31.74
30 to 35.....	2,743	1,861	11.51	67.84	882	5.46	32.16
35 to 40.....	1,487	960	5.94	64.56	527	3.26	35.44
40 to 45.....	824	521	3.22	63.23	303	1.87	36.77
45 to 50.....	549	349	2.16	63.57	200	1.23	36.43
50 to 55.....	404	254	1.57	62.87	150	.93	37.13
55 to 60.....	219	159	.98	72.60	60	.37	27.40
60 to 65.....	197	149	.92	75.63	48	.30	24.37
65 to 70.....	88	65	.40	73.86	23	.14	26.14
70 to 75.....	53	49	.30	92.45	4	.02	7.55
75 to 80.....	14	13	.08	92.86	1	.01	7.14
80 and over.....	5	5	.03	100.00			
Unknown ages.....	174	70	.43	40.23	104	.64	59.77
Under 12.....	26				26	.16	100.00
15 to 20.....	5,672	325	2.02	6.61	5,347	32.74	93.39
20 to 25.....	12,761	8,474	52.72	59.73	4,287	26.86	49.27

Exhibit 2 shows  
each age, and  
at the age  
aged six

married in Michigan at  
age of grooms appears  
less appears for those



EXHIBIT 2.—*Number of Persons Returned as having been Married in Michigan in 1882, by Sex, and Excess of the Sexes, by Age in Years.*

Age in Years.	PERSONS MARRIED IN 1882.			EXCESS.		Age in Years.	PERSONS MARRIED IN 1882.			EXCESS.	
	Total.	Males.	Fe-males.	Males.	Fe-males.		Total.	Males.	Fe-males.	Males.	Fe-males.
All ages	32,356	16,178	16,178	6,073	6,073	48.....	113	83	30	53	.....
12.....	4	.....	1	.....	1	49.....	89	49	40	9	.....
13.....	2	.....	2	.....	2	50.....	124	72	52	20	.....
14.....	23	.....	23	.....	23	51.....	83	51	32	19	.....
15.....	142	.....	142	.....	142	52.....	77	57	20	37	.....
16.....	885	2	883	.....	881	53.....	65	40	25	15	.....
17.....	1,120	10	1,110	.....	1,100	54.....	55	34	21	13	.....
18.....	1,746	94	1,652	.....	1,558	55.....	56	40	16	24	.....
19.....	1,779	269	1,510	.....	1,241	56.....	52	38	14	24	.....
20.....	2,214	633	1,581	.....	948	57.....	35	23	12	11	.....
21.....	2,777	1,317	1,460	.....	143	58.....	47	37	10	27	.....
22.....	2,764	1,452	1,312	140	.....	59.....	29	21	8	13	.....
23.....	2,611	1,549	1,062	487	.....	60.....	64	49	15	34	.....
24.....	2,395	1,523	872	651	.....	61.....	25	17	8	9	.....
25.....	1,969	1,286	683	603	.....	62.....	52	40	12	28	.....
26.....	1,753	1,170	583	587	.....	63.....	26	22	4	18	.....
27.....	1,360	967	393	574	.....	64.....	30	21	9	12	.....
28.....	1,219	864	355	509	.....	65.....	38	29	9	20	.....
29.....	839	587	252	335	.....	66.....	25	19	6	13	.....
30.....	828	570	258	312	.....	67.....	9	7	2	5	.....
31.....	506	364	142	222	.....	68.....	10	5	5	.....	.....
32.....	600	405	195	210	.....	69.....	6	5	1	4	.....
33.....	436	279	157	122	.....	70.....	18	16	2	14	.....
34.....	373	243	130	113	.....	71.....	10	9	1	8	.....
35.....	389	269	120	149	.....	72.....	13	12	1	11	.....
36.....	326	213	113	100	.....	73.....	5	5	.....	5	.....
37.....	279	163	116	47	.....	74.....	7	7	.....	7	.....
38.....	302	194	108	86	.....	75.....	6	5	1	4	.....
39.....	191	121	70	51	.....	76.....	4	4	.....	4	.....
40.....	225	150	75	75	.....	77.....	2	2	.....	2	.....
41.....	159	98	61	37	.....	78.....	1	1	.....	1	.....
42.....	204	138	66	72	.....	79.....	1	1	.....	1	.....
43.....	113	61	52	9	.....	80.....	2	2	.....	2	.....
.....	123	74	49	25	.....	81.....	1	1	.....	1	.....
.....	135	94	41	53	.....	82.....	1	1	.....	1	.....
.....	103	58	45	13	.....	84.....	1	1	.....	1	.....
.....	109	65	44	21	.....	Unk...	174	70	104	.....	34









TABLE VIII.—CONTINUED.—Marriages by Counties, Nativity, and Periods of Age.

COUNTIES.	Number of Couples Married, 1882.	NATIVITY OF PERSONS MARRIED, 1882, STATED BY COUPLES.								SEX STATED.	MARRIAGES AT DIFFERENT AGES, STATED IN PERIODS OF YEARS, 1882.														Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Both Native-Born.	For- eign Males.	For- eign Fe- males.	FEMALES UNKNOWN.		MALES UNKNOWN.		Both Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					Na- tive.	For- eign.	Na- tive.	For- eign.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Ionia.....	275	209	12	28	24	.....	1	.....	10	79	36	15	3	8	5	6	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Livingston ..	175	138	6	19	8	.....	.....	.....	4	Males .. Females.	3 62	80 21	51 21	11 9	10 4	5 4	3 3	2 1	1 1	2	2
Mackinac ..	25	11	6	4	3	.....	1	.....	.....	Males .. Females.	1 8	7 12	8 2	3 2	3 2	1 1	.....	.....	.....	.....	.....
Macomb.....	248	141	51	35	21	.....	.....	.....	.....	Males .. Females.	6 78	105 100	64 32	32 15	17 8	7 5	4 3	2 1	4 1	.....	1
Manistee...	196	48	100	25	14	.....	.....	.....	.....	Males .. Females.	4 60	63 85	86 38	18 8	17 4	6 1	.....	2	.....	.....	.....
Manitou....	7	1	1	3	2	.....	.....	.....	.....	Males .. Females.	..... .....	2 5	4 2	.....	.....	.....	.....	.....	.....	.....	.....
Marquette ..	315	33	234	35	23	.....	.....	.....	.....	Males .. Females.	7 94	121 114	106 69	52 21	10 8	7 4	3 4	1 4	1	.....	1
Mason .....	111	43	42	10	14	1	.....	.....	1	Males .. Females.	1 42	44 42	35 16	20 7	4 3	4 2	.....	.....	.....	.....	1
Mecosta ....	192	97	44	28	23	.....	.....	.....	.....	Males .. Females.	4 80	52 65	30 23	20 11	14 6	3 4	5 1	2 2	.....	.....	.....
Menominee..	189	40	114	19	16	.....	.....	.....	.....	Males .. Females.	5 46	67 81	71 37	28 18	15 5	1 2	1 1	1	.....	.....	.....
Midland ....	55	26	6	10	9	1	1	.....	.....	Males .. Females.	..... 30	22 12	15 5	9 3	4 1	1 1	.....	1 1	1	.....	1
Missaukee...	15	3	4	4	1	1	.....	.....	.....	Males .. Females.	..... 5	3 4	.....	1 1	.....	3 1	.....	.....	.....	.....	2
Monroe .....	349	256	21	45	22	3	.....	1	.....	Males .. Females.	11 116	124 137	120 46	35 17	15 11	9 6	10 5	8 5	2 1	.....	5
Montcalm ..	346	227	48	33	35	1	1	.....	.....	Males .. Females.	14 145	147 111	79 41	45 13	22 11	12 4	5 2	8 2	4 1	.....	2
Mt'morency	3	.....	2	1	.....	.....	.....	.....	.....	Males .. Females.	..... .....	1 1	.....	2 .....	.....	1 .....	.....	.....	.....	.....	4
Muskegon ..	370	135	146	53	29	6	1	.....	.....	Males .. Females.	2 112	141 143	118 60	47 15	24 14	18 6	7 8	4 5	1 3	1	3
Newaygo ...	138	59	14	9	16	.....	.....	.....	.....	Males .. Females.	5 71	67 33	37 15	14 10	4 2	3 3	3 2	2 1	1	.....	1
Oakland ....	369	225	15	41	24	2	.....	.....	.....	Males .. Females.	7 88	131 127	92 52	31 17	21 7	4 5	5 1	2 4	2 2	3 1	4
Ocean.....	106	76	8	13	9	.....	.....	.....	.....	Males .. Females.	4 51	39 31	30 12	21 4	4 3	3 1	1 1	.....	3	.....	.....



TABLE VIII.—CONTINUED.—Marriages by Counties, Nativity, and Periods of Age.

COUNTY.		ACTIVITY OF PERSONS MARRIED, 1882, STATED BY COUPLE.										MARRIAGES AT DIFFERENT AGES, STATED IN PERIODS OF YEARS, 1882.										Number of Marriages at Different Ages.														
		Both Native Born.		For- eign Males.		For- eign Females.		FEMALES UNKNOWN.		MALES UNKNOWN.		SEX STATED.	20 to 24.		25 to 34.		35 to 44.		45 to 54.		55 to 64.			65 to 74.		75 to 84.		85 and over.		Unknown.						
								Females.		Males.																						Females.		Males.		
								Na- tive.	For- eign.	Na- tive.	For- eign.																					Na- tive.	For- eign.	Na- tive.	For- eign.	
273	302	12	28	24	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					
71	15	31	14	9	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					
36	54	13	29	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					
364	265	26	39	21	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....				
97	229	22	39	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....				
32	18	2	6	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....				
92	515	202	121	80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
26	5	9	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
37	23	6	4	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
227	118	30	41	35	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
43	94	10	5	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
504	419	20	34	22	5	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			

## MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

111

Livingston ..	175	138	6	19	8				4	Males --- Females.	3 62	80 63	51 21	11 9	10 4	5 4	3 8	2 1	1 2	0	0	.....
Mackinac....	25	11	6	4	3		1			Males --- Females.	1 8	7 12	8 2	3 3	2 2	1 1	1 1	1 1	1 1	1 1	.....	
Macomb.....	248	141	51	35	21					Males --- Females.	6 78	105 100	64 32	32 15	7 8	5 6	4 3	4 2	4 1	1 1	.....	
Manistee....	196	48	109	25	14					Males --- Females.	4 60	63 85	86 38	18 8	7 1	6 3	2 2	2 2	2 2	2 2	.....	
Manitou.....	7	1	1	3	2					Males --- Females.	2 5	4 2	4 2	.....	.....	.....	.....	.....	.....	.....	.....	
Marquette...	315	33	224	35	23					Males --- Females.	7 94	121 114	106 62	52 21	16 8	7 4	3 4	1 4	1 1	1 1	.....	
Mason.....	111	43	42	10	14	1			1	Males --- Females.	1 42	44 42	35 16	20 7	4 3	4 2	2 2	2 2	2 2	2 2	.....	
Mecosta ....	192	27	44	28	23					Males --- Females.	4 80	52 65	30 23	14 11	3 6	5 4	2 1	2 2	2 2	2 2	.....	
Menominee..	180	40	114	19	16					Males --- Females.	5 46	67 81	71 37	28 15	1 2	1 1	1 1	1 1	1 1	1 1	.....	
Midland ....	55	26	6	10	9	1	1			Males --- Females.	22 30	15 12	9 5	4 3	1 1	1 1	1 1	1 1	1 1	1 1	.....	
Missaukee...	15	3	4	4	1	1				Males --- Females.	3 5	4 3	5 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	.....	
Monroe.....	349	256	21	45	22	3		1	1	Males --- Females.	11 116	124 137	120 46	35 17	15 11	9 6	10 5	8 5	4 1	5 1	.....	
Montcalm ..	346	227	48	33	35	1	1			Males --- Females.	14 145	147 111	79 41	45 13	22 11	12 4	8 4	3 1	4 1	4 1	.....	
M'tmorency ..	3		2	1						Males --- Females.	1 1	1 1	1 1	2 .....	1 .....	1 .....	1 .....	1 .....	1 .....	1 .....	.....	
Muskegon ..	370	135	146	53	29	6	1			Males --- Females.	2 112	141 143	118 60	47 15	24 14	18 6	7 8	4 5	1 3	1 1	.....	
Newaygo ...	138	99	14	9	16					Males --- Females.	5 71	67 33	37 15	14 10	4 2	3 3	3 2	1 1	1 1	1 1	.....	
Oakland ....	369	225	15	41	24	2				Males --- Females.	7 88	131 127	92 52	31 17	21 7	4 5	5 1	2 4	2 2	2 1	.....	
Oceana.....	106	76	8	13	9					Males --- Females.	4 51	39 31	30 12	21 4	4 3	3 1	1 1	1 1	1 1	1 1	.....	



TABLE VIII.—CONTINUED.—*Marriages by Counties, Nativity, and Periods of Age.*

COUNTIES.	Number of Couples Married, 1882.	NATIVITY OF PERSONS MARRIED, 1882, STATED BY COUPLES.						SEX STATED.	MARRIAGES AT DIFFERENT AGES, STATED IN PERIODS OF YEARS, 1882.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Both Na- tive-born.	Both For- eign- born.	FEMALES UNKNOWN.		MALES UNKNOWN.			Both Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				For- eign Na- tives.	For- eign Fe- males.	For- eign Na- tives.	For- eign Fe- males.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Ogemaw.....	13	5	4	2	2	.....	.....	Males.....	.....	6	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

# MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

11

St. Joseph..	226	269	17	21	12	4	.....	2	.....	1	Males... Females...	3	148 133	90 41	27 15	17 13	9 7	12 9	6 4	8 3	7 1	1 1	8	.....	.....
Tuscola.....	257	125	39	53	40	.....	.....	.....	.....	1	Males... Females...	8 112	183 100	67 29	21 5	11 4	4 5	6 4	6 6	3 .....	5 1	1 .....	1 .....	.....	1 .....
Van Buren..	287	254	5	18	9	.....	.....	.....	.....	1	Males... Females...	8 111	125 108	76 29	23 12	16 11	8 8	7 3	11 1	4 1	4 1	5 1	3 2	.....	.....
Washtenaw	384	245	53	47	34	.....	.....	1	.....	1	Males... Females...	5 83	139 168	142 87	46 23	23 10	12 6	6 2	4 5	4 .....	3 .....	2 .....	1 .....	1 .....	.....
Wayne.....	1,576	506	530	259	174	7	1	4	2	3	Males... Females...	26 320	583 730	496 265	212 108	107 48	67 31	34 14	13 11	11 6	9 .....	3 .....	5 .....	1 .....	4 .....
Wexford....	106	57	25	14	8	1	1	.....	.....	.....	Males... Females...	3 31	27 32	18 15	9 .....	18 9	5 3	1 2	.....	3 .....	.....	.....	.....	.....	8 8

The number of persons married in Michigan during the year 1882, who were under twenty-one years of age, may be found in the following table. The percentage of those married under twenty-one to the total number at all ages for each of the years 1876-1882 is as follows: In 1876, 56.38; in 1877, 55.41; in 1878, 56.41; in 1879, 53.75; in 1880, 52.19; in 1881, 50.28; and in 1882, 48.91. Yet, notwithstanding the fact that the number of marriages for 1882 is larger than for any year during the whole period of registration, the proportion of persons married under twenty-one years of age is smaller than for any of the above-mentioned years, or in fact since the registration began.

The number of males and females in 1882, who were married under the legal age, may also be seen in Table IX. There were 12 males and 168 females thus illegally joined in matrimony.

TABLE IX.—*Exhibiting, for the State and Counties, the Total Number of each Sex under 21 Years of Age; and the Number of each Sex at each Age under that of 21 Years, Returned as having been Married in Michigan during the Year ending December 31, 1882.*

STATE AND COUNTIES.	PERSONS MARRIED UNDER 21 YEARS OF AGE, 1882.			AGES OF MALES, 1882.					AGES OF FEMALES, 1882.								
	Total.	Males.	Fe. males.	Twenty.	Nineteen.	Eighteen.	Seventeen. <sup>a</sup>	Sixteen. <sup>a</sup>	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen. <sup>a</sup>	Fourteen. <sup>a</sup>	Thirteen. <sup>a</sup>	Twelve. <sup>a</sup>
STATE.....	7,912	1,008	6,904	633	269	94	10	2	1581	1510	1552	1110	882	142	13	2	1
Alcona.....	13	.....	13	.....	.....	.....	.....	.....	5	5	10	1	10	.....	.....	.....	.....
Allegan.....	188	24	164	19	3	.....	.....	.....	19	23	44	12	12	12	.....	.....	1
Alpena.....	63	3	60	13	.....	.....	.....	.....	13	13	13	9	7	12	1	.....	.....
Antrim.....	39	5	34	3	1	1	.....	.....	4	4	5	9	9	1	12	.....	.....
Baraga.....	2	1	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Barry.....	102	17	85	13	3	1	.....	.....	21	21	19	17	6	1	.....	.....	.....
Bay.....	157	12	145	7	4	1	.....	.....	31	37	35	19	19	1	.....	1	.....
Benzie.....	20	3	17	3	.....	.....	.....	.....	.....	1	4	5	7	.....	.....	.....	.....
Berrien.....	271	40	231	27	8	4	1	.....	45	54	55	31	25	7	.....	.....	.....
Branch.....	212	36	176	16	14	6	.....	.....	36	39	43	21	19	2	1	.....	.....
Calhoun.....	132	20	112	14	4	1	1	.....	42	30	25	18	12	3	1	.....	.....
Cass.....	92	13	79	8	3	2	.....	.....	17	19	19	15	5	3	1	.....	.....
Charlevoix.....	42	3	39	1	1	1	.....	.....	3	4	11	10	5	.....	1	.....	.....
Cheboygan.....	25	3	22	1	2	.....	.....	.....	4	12	12	11	12	.....	.....	.....	.....
Chippewa.....	26	.....	26	.....	.....	.....	.....	.....	6	7	13	13	.....	.....	.....	.....	.....
Clare.....	32	1	.....	.....	.....	.....	.....	.....	2	7	6	6	5	.....	12	.....	.....
Clio.....	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	14	.....	.....	.....	.....	.....
Crawford.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....

<sup>a</sup> Not 18



TABLE IX.—CONTINUED.—*Persons Married under 21 Years of Age.*

COUNTIES.	PERSONS MARRIED UNDER 21 YEARS OF AGE, 1882.			AGES OF MALES, 1882.					AGES OF FEMALES, 1882.								
	Total.	Males.	Fe- males.	Twenty- -	Nineteen.	Eighteen.	Seventeen. <sup>a</sup>	Sixteen. <sup>a</sup>	Twenty- -	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen. <sup>a</sup>	Fourteen. <sup>a</sup>	Thirteen. <sup>a</sup>	Twelve. <sup>a</sup>
Delta.....	46	9	37	7	2	---	---	---	9	6	9	6	5	1	1	---	---
Eaton.....	138	24	114	13	7	3	1	---	25	19	26	26	17	1	---	---	---
Emmet.....	42	3	39	2	1	---	---	---	6	6	13	7	7	---	---	---	---
Genesee.....	174	29	145	16	7	5	1	---	34	23	32	34	19	3	---	---	---
Gladwin.....	6	---	6	---	---	---	---	---	---	1	3	1	1	---	---	---	---
Grand Traverse..	43	2	41	---	1	1	---	---	6	7	13	11	4	---	---	---	---
Gratiot.....	132	19	113	14	5	---	---	---	20	19	21	28	22	3	---	---	---
Hillsdale.....	210	34	176	23	7	4	---	---	43	36	44	27	25	1	---	---	---
Houghton.....	99	15	84	11	4	---	---	---	29	24	7	13	7	4	---	---	---
Huron.....	71	5	66	1	3	1	---	---	13	18	18	8	8	1	---	---	---
Ingham.....	151	22	129	13	7	2	---	---	31	30	25	18	23	2	---	---	---
Ionia.....	125	18	107	8	8	2	---	---	19	27	27	17	16	1	---	---	---
Iosco.....	37	---	37	---	---	---	---	---	7	10	8	7	5	---	---	---	---
Isabella.....	58	6	52	3	1	2	---	---	10	6	13	15	8	---	---	---	---
Jackson.....	175	27	148	19	4	3	1	---	40	37	34	23	10	3	1	---	---
Kalamazoo.....	131	22	109	14	6	2	---	---	30	26	25	15	11	2	---	---	---
Kalkaska.....	24	5	19	3	2	---	---	---	4	4	1	3	5	2	---	---	---
Kent.....	404	46	358	30	12	4	---	---	106	67	100	45	37	3	---	---	---
Keweenaw.....	19	1	18	1	---	---	---	---	1	3	6	4	3	1	---	---	---
Lake.....	24	1	23	---	1	---	---	---	3	2	6	4	6	2	---	---	---
Lapeer.....	125	13	112	9	2	2	---	---	19	29	26	19	16	2	1	---	---
Leelanaw.....	23	5	18	2	3	---	---	---	4	2	5	2	3	2	---	---	---
Lenawee.....	247	40	207	26	12	2	---	---	56	44	55	29	18	4	1	---	---
Livingston.....	89	12	77	9	2	1	---	---	15	18	20	15	9	---	---	---	---
Mackinac.....	10	1	9	---	1	---	---	---	1	1	4	---	2	1	---	---	---
Macomb.....	117	15	102	9	3	3	---	---	24	21	34	11	12	---	---	---	---
Manistee.....	89	11	78	7	2	2	---	---	18	21	18	10	10	1	---	---	---
Manitou.....	1	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---
Marquette.....	142	16	126	9	4	2	1	---	32	27	24	21	15	7	---	---	---
Mason.....	54	3	51	2	1	---	---	---	9	10	16	9	4	2	---	1	---
Mecosta.....	110	15	95	11	4	---	---	---	15	17	22	15	21	3	2	---	---
Menominee.....	80	13	67	8	5	---	---	---	21	15	14	12	3	1	1	---	---
.....	34	3	31	3	---	---	---	---	1	7	6	5	9	3	---	---	---
.....	7	---	7	---	---	---	---	---	2	2	1	1	1	---	---	---	---
.....	174	19	155	8	9	2	---	---	39	36	43	24	13	---	---	---	---

Marriages.

TABLE IX.—CONTINUED.—*Persons Married under 21 Years of Age.*

COUNTIES.	PERSONS MARRIED UNDER 21 YEARS OF AGE, 1882.			AGES OF MALES, 1882.						AGES OF FEMALES, 1882.							
	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Eighteen.	Seventeen. <sup>a</sup>	Sixteen. <sup>a</sup>	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen. <sup>a</sup>	Fourteen. <sup>a</sup>	Thirteen. <sup>a</sup>	Twelve. <sup>a</sup>
Montcalm.....	203	31	172	17	7	4	2	1	27	38	32	29	40	6	---	---	---
Muskegon.....	169	17	152	15	1	1	---	---	40	33	34	30	14	1	---	---	---
Newaygo.....	100	16	84	11	3	2	---	---	13	14	16	14	18	8	1	---	---
Oakland.....	129	15	114	8	6	---	1	---	26	22	32	18	15	1	---	---	---
Oceana.....	63	7	56	3	3	1	---	---	5	9	12	15	10	3	2	---	---
Ogemaw.....	9	---	9	---	---	---	---	---	---	3	2	---	3	1	---	---	---
Ontonagon.....	7	---	7	---	---	---	---	---	4	2	---	1	---	---	---	---	---
Osceola.....	88	10	78	8	2	---	---	---	11	14	20	13	18	1	1	---	---
Oscoda.....	3	---	3	---	---	---	---	---	---	---	---	---	1	2	---	---	---
Otsego.....	14	2	12	1	---	1	---	---	---	2	3	1	4	2	---	---	---
Ottawa.....	179	31	148	20	9	2	---	---	45	33	29	26	15	---	---	---	---
Presque Isle.....	17	---	17	---	---	---	---	---	3	2	2	5	3	2	---	---	---
Roscommon.....	8	1	7	---	---	---	1	---	---	1	1	---	3	2	---	---	---
Saginaw.....	320	34	286	21	11	1	1	---	60	67	75	31	45	7	1	---	---
Sanilac.....	117	13	104	4	4	5	---	---	22	20	30	12	17	3	---	---	---
Schoolcraft.....	12	1	11	---	1	---	---	---	2	2	1	3	2	1	---	---	---
Shiawassee.....	106	13	93	8	4	1	---	---	16	21	21	17	15	3	---	---	---
St. Clair.....	175	12	163	5	4	3	---	---	37	49	36	23	15	3	---	---	---
St. Joseph.....	148	22	126	19	1	2	---	---	27	32	28	23	16	---	---	---	---
Tuscola.....	164	19	145	11	8	---	---	---	33	25	38	28	20	1	---	---	---
Van Buren.....	168	26	142	18	4	4	---	---	31	23	36	29	13	8	2	---	---
Washtenaw.....	135	15	120	10	4	1	---	---	37	40	25	12	4	2	---	---	---
Wayne.....	603	76	527	50	21	5	---	---	167	141	128	65	26	---	---	---	---
Wexford.....	44	6	38	3	2	1	---	---	7	5	9	5	9	3	---	---	---

<sup>a</sup> Not legal marriages.

## MANNER OF UNION BY AGES.

Table X. shows the number and percentage of males and females married in each period of age, in Michigan, during the year 1882. The divisions of age of the grooms are placed in the first column, and of the brides across the top of the table, which are read as follows: Of the 375 grooms who were under twenty, 294 married brides under twenty, 67 married brides 20 to 25, etc. In a similar manner the other numbers in the column headed "Total Males" are distributed throughout the table.

The 5,323 females married under 21 years of age, as seen in the line headed "Total Females," are distributed as follows: 294 married males under 20 years of age, 1,391 married males 20 to 25 years of age, and the bottom line of the



table show the relative proportion of grooms and brides married at each period of age. The largest proportion of both grooms and brides appears for those between the ages of twenty and twenty-five years. The table is very instructive, inasmuch as it gives a comprehensive view of the manner of union, by age, of all parties married during the year.

TABLE X.—*Exhibiting the Number of each Sex at each Period of Age who were married in Michigan during the Year 1882; the Number of each Sex at each Period of Age who were united to the opposite Sex at each Period of Age; and the Per Cent of Brides and of Bridegrooms at each Period of Age to Total at all Ages.*

AGES OF MALES, 1882.	AGES OF FEMALES, 1882.															Total Males.	Per Cent of Grooms at each Age.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
Under 20...	294	67	7	4	1	—	—	—	—	—	—	—	—	—	2	375	2.32
20 to 25.....	3,169	2,852	368	56	9	2	1	1	—	—	—	—	—	—	16	6,474	40.02
25 to 30.....	1,391	2,267	979	166	45	8	4	1	—	—	—	—	—	—	13	4,874	30.13
30 to 35.....	352	699	466	234	73	23	5	2	—	—	—	—	—	—	7	1,861	11.50
35 to 40.....	78	254	238	191	137	46	10	3	1	—	—	—	—	—	2	960	5.94
40 to 45.....	22	97	113	107	86	65	25	4	2	—	—	—	—	—	2	521	3.22
45 to 50.....	7	27	58	53	81	53	46	16	3	—	—	—	—	—	—	349	2.16
50 to 55.....	6	16	22	38	50	53	33	29	3	1	3	—	—	—	—	254	1.57
55 to 60.....	1	4	7	14	27	22	34	31	11	5	2	—	—	—	1	159	.98
60 to 65.....	—	—	6	7	14	20	30	42	11	15	4	—	—	—	—	149	.92
65 to 70.....	—	—	2	4	3	8	7	9	17	10	5	—	—	—	—	65	.40
70 to 75.....	—	—	—	1	1	1	6	9	10	14	5	2	—	—	—	46	.30
75 to 80.....	1	—	—	1	—	—	1	2	1	2	3	2	—	—	—	13	.08
80 and over..	—	—	—	—	—	1	—	1	—	1	1	—	1	—	—	5	.03
Unknown..	2	4	—	1	—	1	—	—	1	—	—	—	—	—	61	70	.43
Total Fe- males. }	5,323	6,287	2,266	882	527	303	200	150	60	48	23	4	1	—	104	16,178	—
Per Ct. of Brides at each age. }	32.90	38.86	14.01	5.45	3.26	1.87	1.24	.93	.37	.30	.14	.02	.01	—	.64	—	100.00

#### GREAT DIFFERENCES IN AGES OF PERSONS MARRIED.

Some curious marriages occurred in 1882, as may be seen from an examination of Table XI. Among the most remarkable of the marriages, in regard to disparity of age, may be mentioned the males at 50, 51, 53, 75, and 59, to females of 19, 16, 23, 16, and 18, respectively. On the other hand, there were a number of marriages where the groom takes a bride many years older than himself. Among such marriages may be mentioned a groom of 24 to a bride of 46, a groom of 27 to a bride of 50, and a groom of 23 to a bride of 52. It is thus very evident that disparity of age is no barrier to the inclinations of some parties desiring matrimony.



TABLE XI.—*Marriages with Great Disparity of Ages, Returned as having been Solemnized in Michigan during the Year ending December 31, 1882.*

COUNTIES.	BRIDEGROOM OLDEST,—1882.					BRIDE OLDEST,—1882.				
	Occupation of Bridegroom.	BIRTHPLACE.		Age.		Occupation of Bridegroom.	BIRTHPLACE.		Age.	
		Bridegroom.	Bride.				Bridegroom.	Bride.		
Allegan.....	Farmer.....	Canada.....	Canada.....	67	35	Farmer.....	Michigan.....	Michigan.....	26	45
Alpena.....	Merchant.....	England.....	Michigan.....	46	29	Farmer.....	New York.....	New York.....	29	39
Antrim.....	Farmer.....	New York.....	Michigan.....	32	17	Laborer.....	Switzerland..	Switzerland..	32	49
Barry.....	Farmer.....	Germany.....	Germany.....	64	31	Farmer.....	Michigan.....	Ireland.....	24	41
Bay.....	Farmer.....	New York.....	Maine.....	46	19	Farmer.....	Michigan.....	Canada.....	54	66
Berrien.....	Farmer.....	New York.....	New York.....	50	19	Farmer.....	Michigan.....	Illinois.....	27	38
Branch.....	Blacksmith.....	New York.....	Indiana.....	49	15	Unknown.....	Unknown.....	Unknown.....	26	37
Calhoun.....	{ Carpenter and Joiner.....	New Hampshire	Maryland.....	62	37					
Cass.....	Farmer.....	Pennsylvania..	New York.....	66	43	Painter.....	Indiana.....	Michigan.....	25	42
Charlevoix.....	Farmer.....	New York.....	New York.....	58	22					
Ontonagon.....	Farmer.....	New Jersey.....	Michigan.....	59	28	Farmer.....	Germany.....	Canada.....	25	37
Delta.....	Railroading.....	Connecticut.....	Pennsylvania..	64	27	Laborer.....	Sweden.....	Sweden.....	30	50
Easton.....	Farmer.....	New York.....	Michigan.....	59	30					
Emmet.....	General business..	New York.....	New York.....	69	51	Farmer.....	Scotland.....	Mass.....	51	65
Genesee.....	Farmer.....	New York.....	Canada.....	50	24	Farmer.....	Canada.....	Michigan.....	24	38
Grand Traverse.....	Farmer.....	Norway.....	Norway.....	50	66					
Gratiot.....	Farmer.....	New York.....	Michigan.....	51	16					
Huron.....	Farmer.....	Ireland.....	Michigan.....	51	16					
Ingham.....	Farmer.....	New York.....	Ohio.....	52	28	Painter.....	New York.....	England.....	43	57
Ionia.....	Farmer.....	Germany.....	Ohio.....	53	23	Laborer.....	Canada.....	Canada.....	24	46

Jackson.....	Farmer.....	England.....	England.....	49	20	Railroading.....	New York.....	New York.....	33	47
Kalamazoo.....	Farmer.....	New York.....	Canada.....	62	35	.....	.....	.....	.....	.....
Kalkaska.....	Farmer.....	New York.....	Canada.....	50	36	Merchant.....	Canada.....	New York.....	29	49
Kent.....	Laborer.....	England.....	Michigan.....	51	21	Laborer.....	Michigan.....	Michigan.....	27	50
Lapeer.....	Farmer.....	Ireland.....	Canada.....	58	35	Farmer.....	Canada.....	N. Brunswick.....	28	37
Lenawee.....	Merchant.....	New York.....	New York.....	50	20	Unknown.....	Michigan.....	Michigan.....	24	36
Livingston.....	Farmer.....	New York.....	Michigan.....	73	16	.....	.....	.....	.....	.....
Macomb.....	Farmer.....	New York.....	Michigan.....	50	23	Laborer.....	Michigan.....	Michigan.....	22	33
Manistee.....	Farmer.....	New York.....	Sweden.....	53	27	.....	.....	.....	.....	.....
Marquette.....	.....	.....	.....	.....	.....	Laborer.....	Michigan.....	Ireland.....	20	30
Mason.....	Farmer.....	France.....	Germany.....	45	19	.....	.....	.....	.....	.....
Mecosta.....	Farmer.....	Ireland.....	New York.....	51	21	.....	.....	.....	.....	.....
Monroe.....	Farmer.....	Pennsylvania.....	Ohio.....	63	25	Laborer.....	Michigan.....	Canada.....	33	45
Montcalm.....	Financier.....	Scotland.....	Pennsylvania.....	59	18	.....	.....	.....	.....	.....
Muskegon.....	Farmer.....	Vermont.....	Michigan.....	80	40	Machinist.....	Germany.....	Germany.....	27	49
Nowaygo.....	.....	.....	.....	.....	.....	Farmer.....	Michigan.....	Michigan.....	27	44
Oceana.....	Farmer.....	Pennsylvania.....	New York.....	63	38	Farmer.....	New York.....	New York.....	23	52
Ottawa.....	Farmer.....	Netherlands.....	Netherlands.....	65	27	Farmer.....	Michigan.....	Michigan.....	21	38
Presque Isle.....	Light-house keeper.....	Ireland.....	Ontario.....	56	30	Farmer.....	Canada.....	Canada.....	42	59
Saginaw.....	Laborer.....	Germany.....	Germany.....	62	39	Farmer.....	Germany.....	Germany.....	19	33
Sanilac.....	Cabinet-maker.....	Ontario.....	Ontario.....	60	33	.....	.....	.....	.....	.....
St. Clair.....	Farmer.....	New York.....	Michigan.....	69	33	Laborer.....	Michigan.....	Michigan.....	18	35
Tuscola.....	Farmer.....	New York.....	Michigan.....	50	24	Carpenter.....	New York.....	Michigan.....	26	47
Van Buren.....	Merchant.....	New York.....	Michigan.....	56	22	.....	.....	.....	.....	.....
Washtenaw.....	Farmer.....	New York.....	England.....	56	23	Farmer.....	Michigan.....	Canada.....	21	31
Wayne.....	Pharmacist.....	England.....	Ontario.....	79	34	Farmer.....	Canada.....	Ontario.....	27	43
Wexford.....	.....	.....	.....	.....	.....	Farmer.....	Sweden.....	Sweden.....	30	40





## MARRIAGES—CORRECTED BY COUNTIES.

Locality	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
Ala. ....	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
Ala. ....	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
Ala. ....	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
Ala. ....	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
Ala. ....	0	10																																																																																																			

No returns of marriages.

## VITAL STATISTICS OF MICHIGAN, 1882.

TABLE XII.—CONTINUED.—Marriages Corrected by Counties.

MARRIAGES.																		
COUNTIES.	1874.		1875.		1876.		1877.		1878.		1879.		1880.		1881.		1882.	
	Number Re-turned previous to Dec. 31, 1873.	Number Re-turned previous to Dec. 31, 1874.	Number Re-turned previous to Dec. 31, 1875.	Number Re-turned previous to Dec. 31, 1876.	Number Re-turned previous to Dec. 31, 1877.	Number Re-turned previous to Dec. 31, 1878.	Number Re-turned previous to Dec. 31, 1879.	Number as first Re-turned and Com-plied.	Number Re-turned since first to and Com-plied.	Number Re-turned previous to Dec. 31, 1880.	Number as first Re-turned and Com-plied.	Number Re-turned since first to and Com-plied.	Number Re-turned previous to Dec. 31, 1881.	Number as first Re-turned and Com-plied.	Number Re-turned since first to and Com-plied.	Number Re-turned previous to Dec. 31, 1882.	Number Re-turned since first to and Com-plied.	
Adams.....	40	33	35	40	33	2	35	1	29	46	1	47	43	6,253	145	.....	.....	.....
Albany.....	402	440	429	430	425	50	475	45	491	509	5	514	504	48,343	96	.....	.....	.....
Albany.....	153	157	145	154	146	18	164	151	158	160	1	167	175	22,251	127	.....	.....	.....
Albany.....	26	13	11	17	18	.....	18	23	23	38	.....	38	25	2,002	116	.....	.....	.....
Albany.....	253	204	235	228	220	2	231	252	7	257	241	14	255	31,027	128	.....	.....	.....
Albany.....	60	71	76	60	85	6	91	101	23	124	113	4	117	12,532	64	.....	.....	.....
Albany.....	8	.....	.....	6	5	.....	5	7	7	6	.....	6	7	1,334	191	.....	.....	.....
Albany.....	215	140	108	110	120	10	130	157	20	205	41	246	315	25,394	81	.....	.....	.....
Albany.....	37	52	53	62	71	86	87	107	.....	101	.....	101	111	10,005	91	.....	.....	.....
Albany.....	80	83	90	97	103	4	107	125	1	143	2	145	192	13,973	73	.....	.....	.....
Albany.....	19	29	29	32	36	53	53	120	3	154	.....	154	180	11,987	63	.....	.....	.....
Albany.....	23	39	23	41	54	43	48	50	.....	50	.....	50	55	6,803	125	.....	.....	.....
Albany.....	2	5	3	7	6	2	4	13	.....	8	.....	8	15	1,553	104	.....	.....	.....
Albany.....	310	304	311	334	320	18	384	314	13	345	4	349	349	35,024	96	.....	.....	.....
Albany.....	191	292	204	214	238	14	258	289	8	296	286	286	340	35,148	96	.....	.....	.....
Albany.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Albany.....	103	157	177	147	165	28	231	290	4	324	0	330	370	20,086	72	.....	.....	.....
Albany.....	88	87	78	97	87	3	106	132	1	112	.....	112	138	14,088	106	.....	.....	.....
Albany.....	301	342	344	342	381	28	332	296	10	307	17	324	300	41,537	134	.....	.....	.....

79	69	68	75	83	83	1	86	111	97	97	110	91
.....	.....	6	2	3	.....	4	4	6	14	13	11,099	110
16	12	13	12	11	9	.....	9	14	15	17	1,914	147
48	37	47	70	70	94	.....	94	117	125	145	2,565	151
.....	.....	.....	.....	.....	.....	.....	.....	.....	13	138	10,777	74
Oscoda	.....	.....	.....	.....	.....	.....	.....	.....	3	6	467	78
.....	4	13	5	8	7	2	9	23	20	25	1,974	70
Oscego	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.27
Ottawa	240	246	241	221	244	9	233	270	11	321	33,126	89
Presque Isle	10	3	5	4	4	8	12	9	1	33	3,113	100
Rosecommon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.00
.....	4	.....	2	4	17	.....	17	10	13	8	1,459	182
Saginaw	412	398	391	402	450	42	492	485	20	584	59,065	98
Sanilac	107	133	118	133	147	2	140	124	26	125	26,341	131
Schoolcraft	6	5	5	9	7	.....	7	7	.....	6	1,575	83
Shiawassee	189	167	186	175	154	9	163	200	5	205	27,039	137
St. Clair	430	350	349	322	384	26	410	376	28	389	46,197	109
St. Joseph	300	307	306	342	277	29	306	325	11	336	26,626	82
Tuscola	150	141	148	192	212	6	218	195	6	201	25,738	100
Van Buren	281	228	245	287	246	21	267	264	33	297	30,807	107
Washtenaw	310	275	275	278	319	8	327	322	8	330	41,848	109
Wayne	1,138	999	1,037	1,136	1,308	29	1,328	1,599	21	1,620	166,444	106
Wexford	24	30	51	43	61	1	62	53	.....	53	6,815	64

\* The population of Montmorency county is included in the population of Alpena county, and cannot be ascertained.



Exhibit D shows the marriage-rates in some of the European countries and States of the Union.

**EXHIBIT D.—*Marriage-Rates in Several States and Countries,—1873–1882.***

STATES AND COUNTRIES.	AVERAGE ANNUAL NUMBER MARRIED FOR 1,000 POPULATION IN THE YEARS 1873–1882.									
	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.
England and Wales.....	17.6	17.1	16.8	16.7	15.8	15.3	-----	14.9	-----	-----
Denmark.....	16.2	16.4	16.9	17.0	16.1	14.7	-----	15.2	-----	-----
Sweden.....	14.6	14.5	14.0	14.1	13.7	12.9	-----	12.6	-----	-----
Austria.....	18.5	17.9	16.9	16.3	14.8	15.0	-----	15.1	-----	-----
Prussia.....	20.3	19.4	18.0	17.1	16.0	15.6	-----	15.4	-----	-----
Netherlands.....	17.0	16.6	16.6	16.4	16.0	15.4	-----	15.0	-----	-----
France.....	17.8	16.7	16.7	15.8	15.1	15.1	-----	-----	-----	-----
Hungary.....	22.6	21.4	21.9	19.8	18.2	18.7	-----	18.2	-----	-----
Switzerland.....	15.2	16.6	18.0	16.2	15.8	14.7	-----	13.6	-----	-----
German Empire.....	20.0	19.1	18.2	17.0	16.0	15.4	-----	15.0	-----	-----
Italy.....	15.8	15.2	16.8	16.2	15.3	14.2	-----	13.8	-----	-----
Massachusetts.....	20.9	19.3	16.5	15.4	15.4	15.5	16.0	17.4	-----	-----
Rhode Island.....	24.2	19.7	19.4	17.5	17.7	18.0	17.3	20.1	19.8	19.1
Michigan.....	18.2	18.2	17.0	16.6	16.0	16.8	17.6	18.0	18.4	18.4

## DEATHS, 1882.

---

The total number of deaths recorded by official registration in Michigan in 1882, was 16,425, a number less by 2,813 than that of the previous year. Computing the mortality according to its proportion to the estimated population of the State, there was a decrease as compared with the years 1880 and 1881, the rate of mortality being 9.40 to each one thousand of the living. The rate in 1880, with the actual population, was 9.90, and the rate in 1881, with the estimated population, was 11.40.

Corrected for supposed omissions in the enumeration, the estimated number of deaths in 1882 is 27,306, and the death-rate 16.7 to each thousand inhabitants, and this is based upon the population in 1880. If the estimated population is used the rate would be 15.6. This diminished mortality indicates either that more deaths escaped registration than usual, or that the public health in Michigan in 1882 was more favorable. After making all necessary allowances, however, for errors of omission, the death-rate in Michigan will compare favorably with the rates in Massachusetts and Rhode Island, and also in certain European countries.

COUNTRIES.	Average Death-rate, 1880-79.	Death-rate, 1880.
Massachusetts.....	19.7	19.8
England and Wales.....	22.0	20.5
Denmark.....	19.7	20.4
Sweden.....	19.2	18.1
Austria.....	30.8	29.6
Prussia.....	26.5	25.5
Netherlands.....	24.6	23.6
France.....	23.6	
Hungary.....	38.9	38.6
Switzerland.....	24.0	21.9
Italy.....	29.9	30.5
Spain.....	29.7	
German Empire.....	27.0	26.1

The death-rate in Massachusetts for the year 1882 per 1,000 of the living population, was 19.14. In Rhode Island in 1882, the rate was 18.3 in each

thousand inhabitants, and the foregoing were the average annual death-rate in the various European countries for the years 1860-1879, and 1880.

In making comparisons of the death-rates in the various states and countries, due allowance should be made for completeness of registration, density of population, and differences in the characteristics of the people. The following tabular statement shows the death-rate in Michigan, both as regards the number of deaths returned, and the number as corrected for omissions in the enumeration. The computations are based upon the population in 1880, and the number of inhabitants represented by the returns of deaths.

	Inhabitants in 1880 Represented by Deaths in 1882.	Deaths as Returned.	Deaths Corrected for Omissions in Enumer- ating.	PER CENT OF DEATHS TO INHABITANTS.	
				Deaths as Returned.	Deaths Corrected for Omissions.
Total.....	1,632,737	16,425	27,306	1.01	1.67

The average number of deaths for certain specified periods of time, as returned and as corrected for omissions in enumerating, including those in unknown month, is as follows:

PERIODS OF TIME.	Deaths as Returned.	Corrected as per Exhibit C, 4th line.
Per quarter.....	4,106	6,827
Per month.....	1,369	2,276
Per week.....	316	525
Per day.....	45	75

The influence of season upon mortality may be seen in Table I., which shows the number and per cent of deaths in each quarter of the years 1874-82. It will be observed that the per cent of deaths in the different quarters of the year vary more or less from year to year. In 1881 the proportion of deaths in the third quarter was 32.48 per cent, and in 1882 it was only 26.07 per cent, being 1.26 per cent less than that of the fourth quarter. The year 1878 is the only other one in the table that shows an excess of deaths in the last quarter. In the states of Massachusetts and Rhode Island the highest death-rates for 1882 were in the third quarter.

When the returns of deaths are corrected for omissions the order of the quarters is seen to be different, the second quarter showing the largest number.



each of the Years 1874 to 1882, inclusive.

TOTALS, AND MONTHS WITH WHICH QUAR- TERS END.	1874.			1875.			1876.			1877.			1878.			1879.			1880.			1881.			1882.		
	Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.		Num- ber.	Per Ct. of Total.	
Totals.....	12,300	100.00		11,990	100.00		12,376	100.00		12,919	100.00		12,766	100.00		14,407	100.00		16,102	100.00		19,238	100.00		16,425	100.00	
As Returned.																											
March.....	2,246	17.97		2,679	22.34		2,460	19.86		2,690	20.82		2,449	19.18		3,000	20.89		3,011	18.70		3,458	17.98		3,321	21.44	
June.....	3,039	24.31		2,833	23.63		2,803	22.69		2,829	21.90		2,822	22.10		3,159	21.93		3,491	21.68		4,100	21.62		4,055	24.69	
September.....	3,870	30.96		3,334	27.81		4,000	31.88		3,999	30.95		3,751	29.33		4,123	28.62		4,983	30.95		6,248	32.48		4,282	26.07	
December.....	3,299	26.39		3,073	25.62		3,273	26.02		3,436	26.60		3,740	29.30		4,075	28.28		4,574	28.40		5,306	27.58		4,489	27.33	
Unknown.....	46	.37		71	.59		31	.25		56	.43		94	.74		41	.28		43	.27		66	.34		78	.47	
Averages <sup>a</sup> .....	3,125.00	25.00		2,997.50	25.00		3,144.00	25.00		3,226.75	25.00		3,191.50	25.00		3,601.75	25.00		4,025.50	25.00		4,809.50	25.00		4,106.00	25.00	
Total.....	20,090	100.00		17,980	100.00		18,389	100.00		18,341	100.00		18,866	100.00		20,533	100.00		26,256	100.00		27,387	100.00		27,306	100.00	
As Corrected for Omissions.																											
March.....	4,288	21.34		4,400	25.50		4,153	22.58		4,227	23.05		4,217	22.35		4,833	23.97		5,877	22.38		5,679	20.74		6,951	25.46	
June.....	5,281	26.29		4,315	24.96		4,364	23.73		4,259	22.22		4,408	22.68		4,793	23.26		6,183	23.55		6,314	23.05		7,242	26.59	
September.....	5,963	29.68		4,621	26.73		5,661	30.78		5,495	29.86		5,340	28.30		5,703	27.71		7,837	29.85		8,642	31.56		6,787	24.86	
December.....	4,512	22.46		3,873	22.40		4,180	22.73		4,304	23.47		4,817	25.53		5,113	24.84		6,316	24.06		6,086	24.41		6,248	22.88	
Unknown.....	46	.23		71	.41		31	.17		56	.30		94	.74		41	.20		43	.16		66	.24		78	.28	
Average <sup>a</sup> .....	5,023	25.00		4,322	25.00		4,597	25.00		4,585	25.00		4,717	25.00		5,146	25.00		5,188	25.00		6,846.75	25.00		6,827	25.00	

<sup>a</sup> Including deaths in unknown month.

**TABLE II.**—Deaths Returned as having occurred in Michigan, by Months, Exhibiting the Number and Per Cent of Total for each of the Years 1875, 1876, 1877, 1878, 1879, 1880, 1881, and 1882, the months arranged in order by Number of Deaths, those having the Greatest Number first.

ORDER.	1875.			1876.			1877.			1878.		
	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.
	Year ..	11,900	100.00	Year ..	12,576	100.00	Year ..	12,919	100.00	Year ..	12,766	100.00
1	Aug. ...	1,323	10.19	Aug. ...	1,507	11.98	Aug. ...	1,559	12.07	Aug. ...	1,371	10.74
2	Sept. ...	1,219	10.17	Sept. ...	1,423	11.32	Sept. ...	1,400	10.84	Dec. ...	1,369	10.73
3	Oct. ...	1,080	9.01	Dec. ...	1,153	9.17	Oct. ...	1,221	9.45	Sept. ...	1,343	10.52
4	Dec. ...	1,065	8.88	Oct. ...	1,131	8.99	Dec. ...	1,155	8.94	Oct. ...	1,190	9.33
5	Mar. ...	1,045	8.73	July ...	1,079	8.58	Nov. ...	1,060	8.20	Nov. ...	1,181	9.25
6	May ...	1,022	8.52	Nov. ...	989	7.86	July ...	1,040	8.05	Apr. ...	1,029	8.06
7	Apr. ...	1,003	8.37	April ...	978	7.78	Mar. ...	990	7.66	July ...	1,017	7.97
8	Nov. ...	928	7.74	Mar. ...	975	7.75	April ...	978	7.57	Mar. ...	930	7.28
9	Feb. ...	898	7.49	May ...	970	7.71	May ...	976	7.55	May ...	923	7.23
10	July ...	883	7.45	June ...	855	6.80	June ...	875	6.77	June ...	870	6.82
11	June ...	806	6.74	Feb. ...	800	6.36	Feb. ...	843	6.53	Feb. ...	789	6.18
12	Jan. ...	736	6.14	Jan. ...	685	5.45	Jan. ...	766	5.93	Jan. ...	730	5.72
	Unk. ...	71	.59	Unk. ...	31	.25	Unk. ...	56	.43	Unk. ...	24	.19
	Av. ....	989.17	8.33	Av. ....	1,048.00	8.33	Av. ....	1,076.58	8.33	Av. ....	1,063.83	8.3
	1879.			1880.			1881.			1882.		
	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per of Tot
	Year ..	14,407	100.00	Year ..	16,102	100.00	Year ..	19,228	100.00	Year ..	16,425	10

## MARRIAGES—CORRECTED BY COUNTIES.

121

Chippewa.....	6	19	11	53	12	19	.....	19	20	2	22	62	.....	52	49	5,348	107	.83
Clare.....	6	19	7	13	16	27	.....	27	39	.....	39	42	.....	42	50	4,187	84	1.19
Clinton.....	296	198	265	187	236	229	3	232	244	2	246	256	.....	256	201	28,100	140	.72
Crawford.....	.....	.....	.....	.....	.....	2	.....	2	13	.....	13	11	.....	11	14	1,159	83	1.21
Delta.....	38	22	27	44	42	60	.....	60	68	.....	68	72	.....	72	96	6,812	71	1.41
Eaton.....	282	271	274	299	274	275	5	280	296	2	298	240	19	259	246	31,225	126	.79
Emmet.....	23	14	22	30	55	38	2	40	51	.....	51	64	.....	64	78	6,639	85	1.17
Genesee.....	315	342	356	364	398	396	36	402	324	8	342	329	9	338	346	39,220	113	.88
Gladwin.....	.....	2	.....	4	4	3	1	4	4	.....	4	4	.....	4	6	1,127	188	.53
G'd Traverse	40	60	63	45	52	77	5	82	73	10	83	59	19	78	88	8,422	96	1.04
Gratiot.....	104	142	119	137	139	177	2	179	191	1	192	197	.....	197	213	21,936	103	.97
Hillsdale.....	420	385	372	337	396	380	8	388	395	8	403	346	14	360	413	32,723	79	1.26
Houghton...	136	135	152	188	164	170	.....	170	169	.....	169	196	.....	196	218	22,473	103	.97
Huron.....	78	112	129	169	120	158	4	142	134	.....	134	134	1	135	114	20,089	176	.57
Ingham.....	283	346	291	313	400	326	3	329	331	9	340	294	6	300	313	33,676	108	.93
Ionia.....	278	273	286	268	301	339	11	350	318	28	346	298	16	314	275	33,872	123	.81
Iosco.....	22	22	17	40	46	48	.....	48	86	4	90	110	.....	110	71	6,873	97	1.03
Isabella.....	62	52	56	49	56	70	1	71	94	2	96	99	1	100	96	12,159	127	.79
Isle Royal..*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jackson.....	380	357	364	401	370	390	7	397	359	19	378	421	10	431	364	42,031	116	.87
Kalamazoo...	319	312	266	258	344	250	71	321	265	76	341	276	67	343	297	34,342	116	.86
Kalkaska.....	9	7	11	16	30	16	1	17	35	1	36	31	2	33	32	2,937	92	1.69
Kent.....	635	658	611	558	605	632	23	655	618	50	668	646	169	815	922	73,233	79	1.26
Keweenaw...	35	83	40	27	26	7	3	10	27	2	29	31	1	32	28	4,270	153	.65
Lake.....	14	14	12	13	16	24	.....	24	16	.....	16	21	.....	21	37	2,233	87	1.14
Lapeer.....	198	197	197	195	237	258	7	265	247	12	259	249	16	265	227	30,138	183	.75

\* No returns of marriages.



In Exhibit A may be seen, by sex, the number and proportion of deaths in 1882, by months equalized to uniform length. As thus equalized, the largest proportion is shown for the month of September and the least for January. The largest excess of males appears for June, and the smallest for February.

EXHIBIT A.—*By Sex, the Number of Deaths Returned as having occurred in Michigan during the Year 1882, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent of Deaths in each Month to Total Deaths during the Year; and Per Cent and Excess of Per Cent of Deaths of each Sex to Total of both Sexes.*

YEAR AND MONTHS, 1882.	NUMBER OF DEATHS, IN 1882, AS RETURNED, EQUALIZED.				PER CENT OF DEATHS IN EACH MONTH TO TOTAL DURING THE YEAR.				PER CENT OF EACH SEX TO TOTAL OF BOTH SEXES, UNKNOWN SEX EX- CLUDED.			
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.	EXCESS.	
											Males.	Fe- males.
YEAR 1882.....	<sup>a</sup> 16,436	8,717	7,671	48	100.00	100.00	100.00	100.00	53.19	46.81	6.38	.....
January.....	961	515	445	1	5.85	5.91	5.80	2.08	53.65	46.35	7.30	.....
February.....	1,273	648	621	4	7.75	7.43	8.09	8.33	51.06	48.94	2.12	.....
March.....	1,347	702	642	3	8.20	8.05	8.37	6.25	52.23	47.77	4.46	.....
April.....	1,330	695	633	2	8.09	7.97	8.25	4.17	52.33	47.67	4.66	.....
May.....	1,454	778	671	5	8.85	8.93	8.75	10.42	53.69	46.31	7.38	.....
June.....	1,283	691	590	2	7.81	7.93	7.69	4.17	53.94	46.06	7.88	.....
July.....	1,261	671	585	5	7.67	7.70	7.63	10.42	53.42	46.58	6.84	.....
August.....	1,427	762	661	4	8.68	8.74	8.62	8.33	53.55	46.45	7.10	.....
September.....	1,567	839	724	4	9.53	9.63	9.44	8.33	53.68	46.32	7.36	.....
October.....	1,471	775	693	3	8.95	8.89	9.03	6.25	52.79	47.21	5.58	.....
November.....	1,442	771	666	5	8.77	8.84	8.68	10.42	53.65	46.35	7.30	.....
December.....	1,542	820	714	8	9.38	9.41	9.31	16.66	53.45	46.55	6.90	.....
Unknown.....	78	50	26	2	.47	.57	.34	4.17	65.79	34.21	31.58	.....
Average..... <sup>b</sup>	1,363	722	637	4	8.33	8.33	8.33	8.33	.....	.....	.....	.....

<sup>a</sup> Eleven—4 males and 7 females—gained in equalizing. The total number of deaths returned 16,425.

<sup>b</sup> Unknown month excluded.

Exhibit B affords an opportunity of comparing the relative standing of the different months with regard to mortality during a series of years in the States of Massachusetts, Rhode Island, and Michigan. The months are placed in the order in which occurred the greatest number of deaths.

**EXHIBIT B.**—*Months arranged in order by Number of Deaths,—those having the greatest Number first,—in Michigan for each of the Years 1879–1882, inclusive, as per Registration Returns, and for each of the Years 1880, 1881, and 1882, Corrected for Omissions in Enumerating; in Massachusetts for each of the Years 1880, 1881, and 1882; also in Rhode Island for each of the Years 1880, 1881, and 1882.*

ORDER.	MICHIGAN, AS PER REGISTRATION RETURNS, INCLUDING STILL-BIRTHS.				MICHIGAN, CORRECTED FOR OMISSIONS IN ENUMERATING, INCLUDING STILL-BIRTHS.			MASSACHUSETTS, INCLUDING STILL-BIRTHS.			RHODE ISLAND, EXCLUDING STILL-BIRTHS.		
	1879.	1880.	1881.	1882.	1880.	1881.	1882.	1880.	1881.	1882.	1880.	1881.	1882.
1.....	Aug.	Aug.	Sept.	Dec.	Aug.	Aug.	May.	Aug.	Aug.	Aug.	July.	Aug.	Aug.
2.....	Dec.	Sept.	Aug.	Sept.	Sept.	Sept.	Mar.	July.	Sept.	Sept.	Aug.	Jan.	Nov.
3.....	Sept.	Dec.	Oct.	Oct.	July.	Oct.	Apr.	Sept.	Apr.	Apr.	Mar.	July.	Sept.
4.....	Oct.	July.	Dec.	May.	Apr.	July.	Sept.	Dec.	Mar.	July.	Jan.	Oct.	July.
5.....	Nov.	Nov.	July.	Aug.	Mar.	Apr.	Feb.	Mar.	Oct.	Jan.	Oct.	Apr.	May.
6.....	July.	Oct.	Nov.	Nov.	Dec.	May.	Aug.	Apr.	Jan.	Mar.	Apr.	Sept.	Dec.
7.....	Apr.	Apr.	May.	Mar.	Oct.	Dec.	Oct.	Oct.	July.	May.	May.	May.	Apr.
8.....	Mar.	May.	Apr.	Apr.	May.	Mar.	J'ne.	May.	Dec.	Dec.	Sept.	Mar.	Oct.
9.....	May.	Mar.	Mar.	July.	Nov.	Nov.	July.	Nov.	Feb.	Oct.	Dec.	Feb.	Jan.
10.....	Feb.	J'ne.	J'ne.	J'ne.	Feb.	J'ne.	Dec.	Jan.	May.	Feb.	Feb.	Dec.	Feb.
11.....	Jan.	Feb.	Feb.	Feb.	J'ne.	Jan.	Jan.	Feb.	Nov.	J'ne.	Nov.	Nov.	Mar.
12.....	J'ne.	Jan.	Jan.	Jan.	Jan.	Feb.	Nov.	J'ne.	J'ne.	Nov.	J'ne.	J'ne.	J'ne.

#### OMISSIONS IN THE ENUMERATION OF DEATHS.

The usual method of correcting the returns of deaths for omissions has been employed for the year 1882. It is assumed that the omissions bear a direct relation to the time between the occurrence of the deaths and their enumeration by the supervisors; and that the per cent to be added to each month should be more or less as the time is longer or shorter. Applying this system of correction to the deaths returned for 1882, it is seen that the average per cent to be added to the deaths returned to make them equal the number which probably occurred was 66.56. Adding this per cent it makes the estimated number of deaths for 1882 27,306. The proportion to be added for each month may be seen in the second line of Exhibits C and E, pages 132 and 134.



## VITAL STATISTICS OF MICHIGAN, 1882.

IBIT C.—Deaths in Michigan during the Year 1882, as Returned, as Corrected for Omissions in Enumerating, same Equalized for Increase of Population during the Year covered by the Returns, and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also, indicating some of the steps by which these results have been reached.

	TOTAL.	MONTHS, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.....	16,347	978	1,171	1,372	1,311	1,480	1,364	1,284	1,453	1,545	1,498	1,421	1,570
Per cent of deaths to be added for correction for time elapsing before enumeration.....	.....	104.69	98.15	91.61	85.07	78.53	71.09	65.45	58.91	52.37	45.83	39.29	32.75
Number of deaths to be added for above correction.....	10,881	1,024	1,149	1,257	1,115	1,162	910	840	856	869	687	568	514
Deaths, if enumerated in months of occurrence.....	27,228	2,002	2,320	2,629	2,426	2,642	2,174	2,124	2,309	2,354	2,185	1,979	2,084
Per cent of deaths to be added to equalize them to population at close of year.....	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year.....	633	84	90	92	77	74	53	45	41	33	23	14	7
Deaths, as corrected, equalized to population at close of year.....	27,861	2,086	2,410	2,721	2,503	2,716	2,227	2,169	2,350	2,387	2,208	1,993	2,091
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	.....	— .56	+ 2.44	— .56	+ .44	— .56	+ .44	— .56	— .56	+ .44	— .56	+ .44	— .56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length.....	+ 49	— 38	+ 210	— 40	+ 37	— 49	+ 33	— 39	— 42	+ 35	— 40	+ 29	— 38
Deaths, corrected and equalized, equalized to months of uniform length...	27,910	2,048	2,620	2,672	2,540	2,667	2,290	2,130	2,308	2,422	2,168	2,022	2,053

\* Excluding 78 deaths in unknown month.

Exhibit D shows the order of the months in which occurred the greatest number of deaths, after they have been corrected for omissions in the enumeration. It will be observed that the order of the months is not the same as in Table II.

EXHIBIT D.—Deaths during the Years 1877 to 1882, inclusive, as Corrected for Omissions in the enumeration, Exhibiting the Number and Per Cent of Total, by Months arranged in Order by Number, Months having the greatest number first.

ORDER.	1877.			1878.			1879.			1880.			1881.			1882.		
	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.	Months.	Num-ber.	Per Ct. of Total.
	Total..	18,341	100.00	Total..	18,896	100.00	Total..	20,583	100.00	Total..	26,256	100.00	Total..	27,387	100.00	Total..	27,306	100.00
1	Aug. ..	2,148	11.71	Aug. ..	1,968	10.43	Aug. ..	2,129	10.34	Aug. ..	2,803	10.68	Aug. ..	3,116	11.38	May...	2,642	9.68
2	Sept. ..	1,870	10.20	Sept. ..	1,853	9.87	Sept. ..	1,884	9.15	Sept. ..	2,532	9.64	Sept. ..	3,063	11.20	Mar...	2,629	9.63
3	Oct. ....	1,580	8.61	Dec. ....	1,700	9.01	Dec. ....	1,817	8.97	July ..	2,502	9.53	Oct. ....	2,526	9.22	April..	2,426	8.88
4	Mar....	1,572	8.57	April..	1,676	8.88	April..	1,827	8.88	Apr. ....	2,339	8.98	July ..	2,433	8.88	Sept. ..	2,354	8.62
5	April..	1,512	8.24	Oct. ....	1,593	8.44	Mar....	1,782	8.66	Mar. ..	2,176	8.29	Apr. ....	2,225	8.12	Feb. ....	2,320	8.50
6	July....	1,477	8.05	Mar....	1,560	8.27	July ..	1,690	8.21	Dec. ....	2,133	8.12	May...	2,200	8.07	Aug. ..	2,300	8.46
7	May....	1,468	8.00	Nov....	1,534	8.08	Oct. ....	1,672	8.12	Oct. ....	2,128	8.10	Dec. ....	2,125	7.76	Oct. ....	2,185	8.00
8	Dec....	1,397	7.62	July....	1,509	8.00	May...	1,639	7.96	May...	2,060	7.85	Mar....	2,107	7.69	June ..	2,174	7.96
9	Feb....	1,374	7.49	May...	1,459	7.73	Feb....	1,629	7.92	Nov. ....	2,055	7.83	Nov. ....	2,035	7.43	July ..	2,124	7.78
10	Nov....	1,327	7.24	Feb....	1,392	7.32	Nov. ....	1,594	7.74	Feb....	1,962	7.47	Dec....	1,880	6.87	Dec....	2,084	7.63
11	Jan....	1,281	6.98	June ..	1,333	7.07	Jan....	1,522	7.40	June ..	1,764	6.72	Jan....	1,798	6.57	Jan....	2,002	7.33
12	June ..	1,279	6.97	Jan....	1,295	6.86	June ..	1,327	6.45	Jan....	1,739	6.62	Feb....	1,774	6.48	Nov. ....	1,979	7.25
	Unk. ....	56	.31	Unk. ....	24	.13	Unk. ....	41	.20	Unk. ....	43	.16	Unk. ....	66	.24	Unk. ....	78	.28
	AV. ....	1,598	8.83	AV. ....	1,572	8.33	AV. ....	1,715	8.33	AV. ....	2,188	8.33	AV. ....	2,932	8.33	AV. ....	2,276	8.33

\* Including deaths in unknown month.





## AGES OF PERSONS WHO DIED IN MICHIGAN IN 1882.

TABLE IV.—*Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1882; also, the Excess of Persons of each Sex.*

AGES IN YEARS AND PERIODS.	NUMBER OF DEATHS, 1882				PER CT. OF DEATHS AT EACH AGE TO TOTAL AT ALL AGES.			PER CT. OF EACH SEX TO TOTAL OF BOTH SEXES.				EXCESS OF THE SEXES BY NO.		Males to 100 Fe- males.
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Males.	Fe- males.	EXCESS.		Males.	Fe- males.	
										Males.	Fe- males.			
All Ages...	16,425	8,713	7,664	48	100.00	100.00	100.00	53.20	46.80	6.40	-----	1,049	-----	113.69
Under 1....	4,005	2,233	1,729	43	24.38	25.63	22.56	56.36	43.64	12.72	-----	504	-----	129.15
1 to 2.....	957	484	473	-----	5.83	5.55	6.17	50.57	49.43	1.14	-----	11	-----	102.33
2 to 3.....	584	309	275	-----	3.56	3.55	3.59	52.91	47.09	5.82	-----	34	-----	112.36
3 to 4.....	443	242	200	1	2.70	2.78	2.61	54.75	45.25	9.50	-----	42	-----	121.00
4 to 5.....	386	184	202	-----	2.35	2.11	2.64	47.67	52.33	-----	4.66	-----	18	91.09
Under 5....	6,375	3,452	2,879	44	38.81	39.62	37.57	54.53	45.47	9.06	-----	573	-----	116.43
5 to 10.....	1,178	602	576	-----	7.17	6.91	7.52	51.10	48.90	2.20	-----	26	-----	104.51
10 to 15....	657	306	351	-----	4.00	3.51	4.58	46.58	53.42	-----	6.84	-----	45	87.18
15 to 20....	665	283	382	-----	4.05	3.25	4.98	42.56	57.44	-----	14.88	-----	99	74.08
20 to 25....	817	416	400	1	4.97	4.78	5.22	50.98	49.02	1.96	-----	16	-----	104.00
25 to 30....	615	287	328	-----	3.75	3.29	4.28	46.67	53.33	-----	6.66	-----	41	87.50
30 to 35....	518	246	272	-----	3.15	2.82	3.55	47.49	52.51	-----	5.02	-----	26	90.44
35 to 40....	506	252	254	-----	3.08	2.80	3.31	49.80	50.20	-----	40	-----	2	99.21
40 to 45....	488	245	243	-----	2.97	2.81	3.17	50.20	49.80	.40	-----	2	-----	100.82
45 to 50....	444	242	202	-----	2.70	2.78	2.64	54.50	45.50	9.00	-----	40	-----	119.80
50 to 55....	474	265	209	-----	2.89	3.04	2.73	55.91	44.09	11.82	-----	56	-----	126.79
55 to 60....	470	263	207	-----	2.86	3.02	2.70	55.96	44.04	11.92	-----	56	-----	127.05
60 to 65....	587	341	246	-----	3.57	3.91	3.21	58.09	41.91	16.18	-----	95	-----	138.62
65 to 70....	588	352	236	-----	3.58	4.04	3.08	59.86	40.14	19.72	-----	116	-----	149.15
70 to 75....	635	367	268	-----	3.87	4.21	3.50	57.80	42.20	15.60	-----	99	-----	136.94
75 to 80....	501	295	206	-----	3.05	3.39	2.69	58.88	41.12	17.76	-----	89	-----	143.20
80 to 85....	382	210	172	-----	2.33	2.41	2.24	54.97	45.03	9.94	-----	38	-----	122.09
85 to 90....	154	84	70	-----	.94	.97	.91	54.55	45.45	9.10	-----	14	-----	120.00
90 to 95....	67	34	33	-----	.41	.39	.43	50.75	49.25	1.50	-----	1	-----	103.03
95 to 100....	25	11	14	-----	.15	.13	.18	44.00	56.00	-----	12.00	-----	3	78.57
100 and over.	11	9	2	-----	.07	.10	.02	81.82	18.18	63.64	-----	7	-----	450.00
Unk. Ages..	268	151	114	3	1.63	1.73	1.49	56.98	43.02	13.96	-----	37	-----	132.46

TABLE V.—*Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1882.*

AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All Ages.....	Total.....	16,425	978	1171	1372	1311	1480	1264	1284	1453	1545	1498	1421	1570	78
	Males.....	8,713	524	596	715	685	792	681	683	776	827	789	760	835	50
	Females.....	7,664	453	571	654	624	683	581	596	673	714	706	656	727	26
	Unknown.....	48	1	4	3	2	5	2	5	4	4	3	5	8	2
Under 1.....	Total.....	4,005	197	238	290	288	329	265	334	500	475	377	300	403	9
	Males.....	2,233	122	129	166	169	181	151	185	269	272	210	156	221	2
	Females.....	1,729	74	106	121	117	144	112	145	228	200	164	139	174	5
	Unknown.....	43	1	3	3	2	4	2	4	3	3	3	5	8	2
All Under 5.....	Total.....	6,375	363	426	487	449	515	428	514	715	722	596	526	617	17
	Males.....	3,452	213	228	271	244	274	236	275	397	394	315	276	322	7
	Females.....	2,879	149	194	213	203	237	190	235	315	325	278	245	287	8
	Unknown.....	44	1	4	3	2	4	2	4	3	3	3	5	8	2
5 to 10.....	Total.....	1,178	81	86	118	94	95	88	76	91	81	102	132	133	1
	Males.....	602	33	39	64	47	45	52	38	47	53	52	66	66	---
	Females.....	576	48	47	54	47	50	36	38	44	28	50	66	67	1
10 to 15.....	Total.....	657	43	46	57	46	47	68	60	46	45	79	69	49	2
	Males.....	306	21	12	24	27	21	35	29	30	15	35	35	21	1
	Females.....	351	22	34	33	19	26	33	31	16	30	44	34	28	1
15 to 20.....	Total.....	665	37	59	57	63	69	61	56	39	54	60	59	48	3
	Males.....	283	19	29	20	29	35	27	24	6	24	21	26	21	2
	Females.....	382	18	30	37	34	34	34	32	33	30	39	33	27	1
20 to 25.....	Total.....	817	43	64	80	77	81	62	69	64	62	84	70	56	5
	Males.....	416	26	34	34	27	38	35	37	33	30	50	39	29	4
	Females.....	400	17	30	46	50	43	27	32	30	32	34	31	27	1
25 to 30.....	Total.....	615	41	39	55	47	64	56	46	46	61	66	51	41	2
	Males.....	287	18	22	20	23	35	26	21	15	28	25	29	24	1
	Females.....	328	23	17	35	24	29	30	25	31	33	41	22	17	1
30 to 35.....	Total.....	518	36	36	36	52	48	47	32	52	53	49	44	33	---
	Males.....	246	16	16	20	17	26	24	15	26	19	27	25	15	---
	Females.....	272	20	20	16	35	22	23	17	26	34	22	19	18	---
35 to 40.....	Total.....	506	36	40	47	43	40	45	41	28	42	47	47	50	---
	Males.....	252	19	17	19	21	20	23	22	13	18	23	27	30	---
	Females.....	254	17	23	28	22	20	22	19	15	24	24	20	20	---
40 to 45.....	Total.....	488	35	41	38	47	47	36	40	38	42	31	43	48	2
	Males.....	245	14	17	23	28	23	17	22	23	20	18	21	18	1
	Females.....	243	21	24	15	19	24	19	18	15	22	13	22	30	1



TABLE V.—CONTINUED.—*Deaths by Periods of Age, by Sex, by Months.*

AGES IN PERIODS OF YEARS.		SEX.	YEAR, 1882.	MONTHS, 1882.												
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
45 to 50.....	Total.....		444	31	34	44	36	46	31	40	37	33	33	37	39	3
	Males.....		242	22	17	19	20	31	12	19	18	19	15	23	25	---
	Females.....		202	9	17	25	16	15	19	21	19	14	17	14	13	3
50 to 55.....	Total.....		474	25	35	43	43	43	45	36	36	38	40	40	50	---
	Males.....		265	12	23	31	26	21	25	22	17	19	23	19	27	---
	Females.....		209	13	12	12	17	22	20	14	19	19	17	21	23	---
55 to 60.....	Total.....		470	23	30	56	41	42	33	47	30	39	38	36	54	1
	Males.....		263	14	16	31	27	20	21	23	15	25	20	18	32	1
	Females.....		207	9	14	25	14	22	12	24	15	14	18	18	22	---
60 to 65.....	Total.....		587	29	47	50	52	51	57	42	41	46	48	52	70	2
	Males.....		341	12	25	24	23	38	29	29	27	32	28	31	41	2
	Females.....		246	17	22	26	29	13	28	13	14	14	20	21	29	---
65 to 70.....	Total.....		588	37	46	38	62	65	56	42	44	58	42	45	44	9
	Males.....		352	23	25	21	37	41	35	22	22	38	29	28	23	8
	Females.....		236	14	21	17	25	24	21	20	22	20	13	17	21	1
70 to 75.....	Total.....		635	40	45	51	47	70	48	44	52	41	68	48	80	1
	Males.....		367	21	28	31	26	42	28	24	33	18	39	30	46	1
	Females.....		268	19	17	20	21	28	20	20	19	23	29	18	34	---
75 to 80.....	Total.....		501	23	40	43	51	50	30	39	31	50	35	44	65	---
	Males.....		295	12	20	27	31	29	20	26	19	33	19	21	38	---
	Females.....		206	11	20	16	20	21	10	13	12	17	16	23	27	---
80 to 85.....	Total.....		382	20	26	35	27	40	37	25	29	30	34	40	35	4
	Males.....		210	11	13	17	13	19	18	16	18	18	21	23	20	3
	Females.....		172	9	13	18	14	21	19	9	11	12	13	17	15	1
85 to 90.....	Total.....		154	8	14	14	10	18	14	9	9	16	12	14	16	---
	Males.....		84	5	6	6	4	15	8	6	3	9	6	7	9	---
	Females.....		70	3	8	8	6	3	6	3	6	7	6	7	7	---
90 to 95.....	Total.....		67	6	2	8	3	11	1	3	5	6	7	3	12	---
	Males.....		34	1	1	5	3	1	---	3	2	5	3	2	8	---
	Females.....		33	5	1	3	---	10	1	---	3	1	4	1	4	---
95 to 100.....	Total.....		25	1	2	2	2	2	2	1	---	4	2	3	4	---
	Males.....		11	---	1	1	2	1	1	---	---	---	---	1	4	---
	Females.....		14	1	1	1	---	1	1	1	---	4	2	2	---	---
100 and over.....	Total.....		11	1	2	2	1	1	---	1	1	---	1	---	1	---
	Males.....		9	1	2	2	---	1	---	1	1	---	1	---	---	---
	Females.....		2	---	---	---	1	---	---	---	---	---	---	---	1	---
Unknown.....	Total.....		268	19	11	11	18	35	19	21	19	22	24	18	25	26
	Males.....		151	11	5	5	10	16	9	9	11	10	18	13	15	19
	Females.....		114	8	6	6	8	18	10	11	8	11	6	5	10	7
	Unknown.....		3	---	---	---	---	1	---	1	---	1	---	---	---	---

The interesting relations of age and sex to mortality, with the percentage of decedents in each period of age to the whole number of deaths, may be studied in Table IV, page 135. The column of percentages headed "Per cent of deaths at each age to total at all ages," tells the story of mortality at different periods of life. It shows that, in 1882, nearly a fourth of all the deaths were those of children under one year of age, and that more than a third of the total mortality fell on children under five.

The proportion of deaths under five years of age, in 1882, was smaller than in any previous year since the registration in this State, the per cent for the year being 38.81, while the average per cent for the thirteen years 1870-1882 was 40.51. As has been stated before, there was a marked decrease in some of the prominent causes of death among children in 1882. This was especially true of diphtheria and diarrhea.

The proportion of males and females among the decedents at different ages is also shown in this table. In the period under one year of age, the deaths of males largely predominate, which corresponds to the excess of males among the births; but from 5 to 45 there is an excess among female decedents. This is true, not only for 1882, but also for the average for thirteen years 1870-1882.

Among the decedents under one year of age there were 129 males to 100 females, and among those under five years of age there were 116 males to 100 females. In the average for thirteen years, there was an excess of 3.08 per cent of male decedents under one year of age, and an excess of 2.73 per cent under five years of age.

In Exhibit F, page 136, may be seen the number of deaths in 1882 for both males and females at each age. It presents some significant contrasts with regard to the sex of decedents. It will be noticed that more male infants die than female, and that between the ages of fifteen and twenty, female lives are encroached upon more than males.

#### DEATHS BY MONTHS AT DIFFERENT AGES.

The relative proportion of decedents at different periods of life and in the several months of the year may be studied in Exhibit G. Of the decedents in the month of January, 20.14 per cent died under one year of age; 37.12 per cent died under five years of age, etc. There were 1,453 deaths returned in the month of August, of which 34.41 per cent died under one year of age, and 49.21 per cent died under five years of age. Of the 6,358 decedents under five years, 5.71 per cent died in January, 6.70 per cent died in February, and 11.36 per cent in September, the greatest proportion.

For 1882, the largest proportion of decedents under one year of age died in the month of August, and the largest proportion under five, died in the month of September. The teaching of this exhibit, for ten years 1873-1882, has been that August was the month of greatest danger to children under five. To children between the ages of 5 and 10 years, and adults over 50 the greatest danger is in December.

The midsummer season has always been unfavorable to life, and especially is this true among children.

Tables V. and VI. give further details concerning deaths by sex, by months, and periods of age.



EXHIBIT G.—The Relation of the Deaths at Different Periods of Age to Deaths at All Ages, by Months; and for the same Period of Age, the Relation of the Deaths in each Month to the Deaths in the Year 1882, according to the Returns.

DEATHS BY AGES IN PERIODS OF YEARS.	YEAR, 1882. <sup>a</sup>	MONTHS, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
All ages.....	16,347	978	1,171	1,372	1,311	1,480	1,954	1,284	1,453	1,545	1,498	1,421	1,570
Under 1.....	3,696	197	283	290	288	329	265	334	500	475	377	300	403
{ Number.....													
{ Per cent of all ages.....	24.44	20.14	20.32	21.14	21.97	22.23	20.97	26.01	34.41	30.74	25.17	21.11	25.67
{ Per cent of deaths, 1882.....	100.00	4.93	5.96	7.26	7.21	8.23	6.63	8.36	12.51	11.88	9.43	7.51	10.00
Under 5.....	6,338	363	426	487	449	515	428	514	715	722	596	525	617
{ Number.....													
{ Per cent of all ages.....	39.39	37.12	36.38	35.50	34.25	34.80	33.86	40.03	40.21	46.73	39.79	37.02	39.30
{ Per cent of deaths, 1882.....	100.00	5.71	6.70	7.06	7.06	8.10	6.73	8.08	11.25	11.36	9.38	8.27	9.70
5 to 10.....	1,177	81	86	118	94	95	88	76	91	81	102	132	133
{ Number.....													
{ Per cent of all ages.....	7.20	8.28	7.34	8.60	7.17	6.42	6.96	5.92	6.26	5.24	6.81	9.29	8.47
{ Per cent of deaths, 1882.....	100.00	6.88	7.31	10.03	7.90	8.07	7.48	6.45	7.73	6.88	8.67	11.21	11.30
10 to 20.....	1,317	80	105	114	100	116	129	116	85	59	139	128	97
{ Number.....													
{ Per cent of all ages.....	8.06	8.18	8.97	8.31	8.31	7.84	10.21	9.03	5.85	6.41	9.28	9.01	6.18
{ Per cent of deaths, 1882.....	100.00	6.07	7.97	8.66	8.28	8.81	9.79	8.81	6.45	7.52	10.55	9.72	7.37
20 to 50.....	3,376	222	254	300	302	326	277	298	265	293	310	292	267
{ Number.....													
{ Per cent of all ages.....	20.65	22.70	21.69	23.04	23.04	23.03	21.91	20.87	18.24	18.96	20.69	20.55	17.01
{ Per cent of deaths, 1882.....	100.00	6.58	7.92	8.80	8.94	9.66	8.20	7.94	7.85	8.68	9.18	8.65	7.91
50 and over.....	3,877	213	289	342	389	393	323	289	278	328	327	325	431
{ Number.....													
{ Per cent of all ages.....	23.72	21.78	24.68	24.93	25.86	26.55	25.55	22.51	19.13	21.23	21.83	22.87	27.45
{ Per cent of deaths, 1882.....	100.00	5.49	7.45	8.82	8.74	10.14	8.33	7.45	7.17	8.46	8.45	8.38	11.12
Unknown ages.....	242	19	11	11	18	35	19	21	19	22	24	18	25
{ Number.....													
{ Per cent of all ages.....	1.48	1.93	.94	.80	1.37	2.36	1.50	1.64	1.31	1.42	1.60	1.27	1.69
{ Per cent of deaths, 1882.....	100.00	7.85	4.55	4.55	7.44	14.46	7.85	8.67	7.85	9.00	9.92	7.44	10.33

<sup>a</sup> Excluding unknown month.



AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All Ages.....	Total.....	16,425	978	1171	1372	1311	1480	1264	1284	1453	1545	1498	1421	1570	78
	Males.....	8,713	524	596	715	685	792	681	683	776	827	789	760	835	50
	Females.....	7,664	453	571	654	624	683	581	596	673	714	706	656	727	26
	Unknown.....	48	1	4	3	2	5	2	5	4	4	3	5	8	
Under 1.....	Total.....	4,005	197	238	290	288	329	265	334	500	475	377	300	403	9
	Males.....	2,233	122	129	166	169	181	151	185	269	272	210	156	221	2
	Females.....	1,729	74	106	121	117	144	112	145	228	200	164	139	174	5
	Unknown.....	43	1	3	3	2	4	2	4	3	3	3	5	8	2
All Under 5.....	Total.....	6,375	363	426	487	449	515	428	514	715	722	596	526	617	17
	Males.....	3,452	213	228	271	244	274	236	275	397	394	315	276	322	7
	Females.....	2,879	149	194	213	203	237	190	235	315	325	278	245	287	8
	Unknown.....	44	1	4	3	2	4	2	4	3	3	3	5	8	2
5 to 10.....	Total.....	1,178	81	86	118	94	95	88	76	91	81	102	132	133	1
	Males.....	602	33	39	64	47	45	52	38	47	53	52	66	66	---
	Females.....	576	48	47	54	47	50	36	38	44	28	50	66	67	1
10 to 15.....	Total.....	657	43	46	57	46	47	68	60	46	45	79	69	49	2
	Males.....	306	21	12	24	27	21	35	29	30	15	35	35	21	1
	Females.....	351	22	34	33	19	26	33	31	16	30	44	34	28	1
15 to 20.....	Total.....	665	37	59	57	63	69	61	56	39	54	60	59	48	3
	Males.....	283	19	29	20	29	35	27	24	6	24	21	26	21	2
	Females.....	382	18	30	37	34	34	34	32	33	30	39	33	27	1
20 to 25.....	Total.....	817	43	64	80	77	81	62	69	64	62	84	70	56	5
	Males.....	416	26	34	34	27	38	35	37	33	30	50	39	29	4
	Females.....	400	17	30	46	50	43	27	32	30	32	34	31	27	1
	Unknown.....	1	---	---	---	---	---	---	---	1	---	---	---	---	---
25 to 30.....	Total.....	615	41	39	55	47	64	56	46	46	61	66	51	41	2
	Males.....	287	18	22	20	23	35	26	21	15	28	25	29	24	1
	Females.....	328	23	17	35	24	29	30	25	31	33	41	22	17	1
30 to 35.....	Total.....	518	36	36	36	52	48	47	32	52	53	49	44	33	---
	Males.....	246	16	16	20	17	26	24	15	26	19	27	25	15	---
	Females.....	272	20	20	16	35	22	23	17	26	34	22	19	18	---
35 to 40.....	Total.....	506	36	40	47	43	40	45	41	28	42	47	47	50	---
	Males.....	252	19	17	19	21	20	23	22	13	18	23	27	30	---
	Females.....	254	17	23	28	22	20	22	19	15	24	24	20	20	---
40 to 45.....	Total.....	488	35	41	38	47	47	36	40	38	42	31	43	48	2
	Males.....	245	14	17	23	28	23	17	22	23	20	18	21	18	1
	Females.....	243	21	24	15	19	24	19	18	15	22	13	22	30	1

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.		SEX.	YEAR, 1882.	MONTHS, 1882.												
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
23	Total.....		163	11	12	16	16	22	14	16	4	8	19	12	11	2
	Males.....		79	8	5	7	6	11	6	10	2	2	11	7	3	1
	Females.....		84	3	7	9	10	11	8	6	2	6	8	5	8	1
24	Total.....		159	10	14	21	18	9	13	9	14	17	12	13	8	1
	Males.....		78	5	7	4	7	4	8	5	7	8	9	7	6	1
	Females.....		81	5	7	17	11	5	5	4	7	9	3	6	2	---
25	Total.....		127	9	8	11	8	12	18	9	8	12	11	14	6	1
	Males.....		56	3	3	5	3	5	9	4	3	4	5	9	3	---
	Females.....		71	6	5	6	5	7	9	5	5	8	6	5	3	1
26	Total.....		128	12	11	14	4	11	11	7	6	12	20	10	10	---
	Males.....		63	4	6	9	3	6	4	4	2	5	9	6	5	---
	Females.....		65	8	5	5	1	5	7	3	4	7	11	4	5	---
27	Total.....		125	8	5	15	11	20	10	7	9	12	15	8	5	---
	Males.....		53	4	5	4	7	12	3	1	1	4	5	5	2	---
	Females.....		72	4	---	11	4	8	7	6	8	8	10	3	3	---
28	Total.....		146	7	12	12	12	15	9	15	11	19	10	11	13	---
	Males.....		72	4	5	1	6	9	6	9	4	11	3	5	9	---
	Females.....		74	3	7	11	6	6	3	6	7	8	7	6	4	---
29	Total.....		89	5	3	3	12	6	8	8	12	6	10	8	7	1
	Males.....		43	3	3	1	4	3	4	3	5	4	3	4	5	1
	Females.....		46	2	---	2	8	3	4	5	7	2	7	4	2	---
30	Total.....		111	8	10	8	14	12	4	7	10	11	12	12	3	---
	Males.....		56	3	4	4	6	5	3	4	4	4	8	9	2	---
	Females.....		55	5	6	4	8	7	1	3	6	7	4	3	1	---
31	Total.....		84	3	4	7	8	7	12	4	11	9	10	4	5	---
	Males.....		34	1	2	5	2	4	4	1	3	5	3	1	3	---
	Females.....		50	2	2	2	6	3	8	3	8	4	7	3	2	---
32	Total.....		117	5	6	6	12	11	12	5	11	15	13	10	11	---
	Males.....		60	2	3	3	3	7	6	4	7	5	8	6	6	---
	Females.....		57	3	3	3	9	4	6	1	4	10	5	4	5	---
33	Total.....		110	14	8	8	10	7	5	10	12	11	9	9	7	---
	Males.....		50	7	2	7	4	3	2	5	6	3	4	5	2	---
	Females.....		60	7	6	1	6	4	3	5	6	8	5	4	5	---
	Total.....		96	6	8	7	8	11	14	6	8	7	5	9	7	---
	Males.....		46	3	5	1	2	7	9	1	6	2	4	4	2	---
	Females.....		50	3	3	6	6	4	5	5	2	5	1	5	5	---

TABLE VI.—*Exhibiting, by Sex and by Months, the Number Returned as having died in Michigan during the Year 1882 at each and every Age, the Age stated in Twelfths of a Year for those under One Year, and in Years for those over One Year of Age.*

AGES IN YEARS.		SEX.	YEAR, 1882.	MONTHS, 1882.												
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Under 1-12	Total.....		1,870	113	134	152	145	153	138	159	180	143	159	154	235	6
	Males.....		1,045	71	78	81	83	82	80	89	100	86	95	81	118	1
	Females..		789	41	53	69	61	67	57	66	78	53	62	69	110	3
	Unknown		36	1	3	2	1	4	1	4	2	3	2	4	7	2
1-12.....	Total.....		332	8	20	22	21	33	24	20	41	42	45	25	31	---
	Males.....		173	4	10	16	12	15	8	9	23	25	27	10	14	---
	Females..		158	4	10	6	9	18	16	11	18	17	18	14	17	---
	Unknown		1	---	---	---	---	---	---	---	---	---	---	1	---	---
	Total.....		263	10	7	16	21	18	18	29	31	36	23	22	30	2
	Males.....		160	6	5	9	13	11	8	20	16	23	14	12	22	1
2-12.....	Females..		100	4	2	7	8	7	9	9	15	13	8	10	7	1
	Unknown		3	---	---	---	---	---	1	---	---	---	1	---	1	---
	Total.....		238	7	13	12	12	29	15	19	34	37	29	14	17	---
3-12.....	Males.....		115	4	5	6	5	15	9	6	11	20	13	7	14	---
	Females..		122	3	8	6	6	14	6	13	23	17	16	7	3	---
	Unknown		1	---	---	---	1	---	---	---	---	---	---	---	---	---
4-12.....	Total.....		219	12	14	12	9	15	11	14	50	33	15	12	22	---
	Males.....		130	8	9	9	3	11	7	7	33	20	7	6	10	---
	Females..		88	4	5	3	6	4	4	7	16	13	8	6	12	---
	Unknown		1	---	---	---	---	---	---	---	1	---	---	---	---	---
5-12.....	Total.....		192	13	6	13	15	10	9	20	25	36	13	19	13	---
	Males.....		107	7	3	6	9	7	5	11	14	18	4	13	10	---
	Females..		84	6	3	6	6	3	4	9	11	18	9	6	3	---
	Unknown		1	---	---	1	---	---	---	---	---	---	---	---	---	---
6-12.....	Total.....		211	9	12	12	15	13	12	22	35	34	23	13	11	1
	Males.....		118	6	4	8	9	8	9	14	18	16	10	9	7	---
	Females..		93	3	8	4	6	5	3	8	17	18	12	4	4	1
7-12.....	Total.....		147	3	5	13	11	10	6	8	28	27	18	9	9	---
	Males.....		89	2	2	10	8	3	6	3	17	21	8	4	5	---
	Females..		58	1	3	3	3	7	---	5	11	6	10	5	4	---
8-12.....	Total.....		143	2	7	12	6	16	7	8	23	22	19	10	11	---
	Males.....		77	1	4	7	4	10	3	6	13	12	11	2	4	---
	Females..		66	1	3	5	2	6	4	2	10	10	8	8	7	---
9-12.....	Total.....		132	6	8	12	16	11	6	13	14	14	16	6	10	---
	Males.....		76	4	3	7	11	6	4	8	7	8	10	2	6	---
	Females..		56	2	5	5	5	5	2	5	7	6	6	4	4	---

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
10-12	Total.....	120	7	6	8	11	9	7	12	17	19	8	8	8	---
	Males.....	65	5	2	5	7	6	4	4	5	9	6	6	6	---
	Females.....	55	2	4	3	4	3	3	8	12	10	2	2	2	---
11-12	Total.....	138	7	6	6	6	12	12	10	22	33	10	8	6	---
	Males.....	78	4	4	2	5	7	8	8	12	14	5	4	5	---
	Females.....	60	3	2	4	1	5	4	2	10	19	5	4	1	---
1	Total.....	957	49	80	70	63	76	59	81	116	124	92	74	71	2
	Males.....	484	24	40	41	25	33	31	37	65	68	42	43	34	1
	Females.....	473	25	40	29	38	43	28	44	51	56	50	31	37	1
2	Total.....	584	43	38	55	53	44	46	43	46	42	59	52	62	1
	Males.....	309	23	19	25	28	23	28	24	33	21	31	25	28	1
	Females.....	275	20	19	30	25	21	18	19	13	21	28	27	34	---
3	Total.....	443	38	33	33	27	39	32	36	25	46	38	53	41	2
	Males.....	242	21	19	18	13	24	15	19	17	21	20	32	21	2
	Females.....	200	17	13	15	14	15	17	17	8	25	18	21	20	---
4	Unknown.....	1	---	1	---	---	---	---	---	---	---	---	---	---	---
	Total.....	386	36	37	39	18	27	26	20	28	35	30	47	40	3
	Males.....	184	23	21	21	9	13	11	10	13	12	12	20	18	1
5	Females.....	202	13	16	18	9	14	15	10	15	23	18	27	22	2
	Total.....	319	29	22	28	27	21	30	13	27	22	28	40	32	---
	Males.....	179	9	12	21	14	11	19	5	16	16	11	25	20	---
6	Females.....	140	20	10	7	13	10	11	8	11	6	17	15	12	---
	Total.....	266	20	21	20	20	19	18	17	29	25	22	21	34	---
	Males.....	138	9	10	7	12	10	10	10	16	14	10	10	20	---
7	Females.....	128	11	11	13	8	9	8	7	13	11	12	11	14	---
	Total.....	260	13	20	34	21	27	20	22	14	13	22	24	30	---
	Males.....	128	5	9	19	11	10	12	12	3	8	15	8	16	---
8	Females.....	132	8	11	15	10	17	8	10	11	5	7	16	14	---
	Total.....	188	11	11	20	16	16	10	14	10	12	16	26	25	1
	Males.....	87	7	4	7	5	10	5	7	7	8	8	13	6	---
9	Females.....	101	4	7	13	11	6	5	7	3	4	8	13	19	1
	Total.....	145	8	12	16	10	12	10	10	11	9	14	21	12	---
	Males.....	70	3	4	10	5	4	6	4	5	7	8	10	4	---
10	Females.....	75	5	8	6	5	8	4	6	6	2	6	11	8	---
	Total.....	155	9	11	16	7	8	18	15	8	13	19	17	13	1
	Males.....	73	5	4	5	5	3	13	7	5	4	6	9	6	1
	Females.....	82	4	7	11	2	5	5	8	3	9	13	8	7	---



TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
11.....	Total.....	136	7	9	12	13	10	12	16	8	5	19	10	15	---
	Males.....	60	3	1	8	8	3	4	8	5	---	10	4	6	---
	Females..	76	4	8	4	5	7	8	8	3	5	9	6	9	---
12.....	Total.....	140	11	7	11	11	10	18	12	12	10	16	15	7	---
	Males.....	64	7	2	2	3	8	9	6	6	4	6	9	2	---
	Females..	76	4	5	9	8	2	9	6	6	6	10	6	5	---
13.....	Total.....	113	5	9	12	9	7	11	9	11	8	12	14	6	---
	Males.....	59	1	1	6	7	2	6	5	8	3	9	6	5	---
	Females..	54	4	8	6	2	5	5	4	3	5	3	8	---	---
14.....	Total.....	113	11	10	6	6	12	9	8	7	9	13	13	8	1
	Males.....	50	5	4	3	4	5	3	3	6	4	4	7	2	---
	Females..	63	6	6	3	2	7	6	5	1	5	9	6	6	1
15.....	Total.....	98	4	11	9	8	8	9	9	7	6	8	9	10	---
	Males.....	39	2	3	4	2	4	5	5	1	3	1	5	4	---
	Females..	59	2	8	5	6	4	4	4	6	3	7	4	6	---
16.....	Total.....	112	8	12	9	9	8	11	8	13	7	10	7	10	---
	Males.....	40	3	6	3	5	4	2	2	1	3	3	4	4	---
	Females..	72	5	6	6	4	4	9	6	12	4	7	3	6	---
17.....	Total.....	163	12	12	15	14	20	16	16	10	9	12	13	12	2
	Males.....	80	7	7	4	5	11	11	9	2	4	8	6	5	1
	Females..	83	5	5	11	9	9	5	7	8	5	4	7	7	1
18.....	Total.....	149	6	9	11	17	22	10	11	4	16	21	11	10	1
	Males.....	56	4	4	4	7	10	2	4	---	5	6	3	6	1
	Females..	93	2	5	7	10	12	8	7	4	11	15	8	4	---
19.....	Total.....	143	7	15	13	15	11	15	12	5	16	9	19	6	---
	Males.....	68	3	9	5	10	6	7	4	2	9	3	8	2	---
	Females..	75	4	6	8	5	5	8	8	3	7	6	11	4	---
20.....	Total.....	166	5	11	13	11	19	13	14	18	12	18	20	12	---
	Males.....	88	2	7	9	5	7	8	7	8	6	8	15	6	---
	Females..	77	3	4	4	6	12	5	7	9	6	10	5	6	---
	Unknown	1	---	---	---	---	---	---	---	1	---	---	---	---	---
21.....	Total.....	150	5	13	12	13	15	12	15	12	9	20	11	13	---
	Males.....	77	2	7	6	3	8	7	6	8	5	13	5	7	---
	Females..	73	3	6	6	10	7	5	9	4	4	7	6	6	---
22.....	Total.....	179	12	14	18	19	16	10	15	16	16	15	14	12	2
	Males.....	94	9	8	8	6	8	6	9	8	9	9	5	7	2
	Females..	85	3	6	10	13	8	4	6	8	7	6	9	5	---



TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
23	Total.....	163	11	12	16	16	22	14	16	4	8	19	12	11	2
	Males.....	79	8	5	7	6	11	6	10	2	2	11	7	3	1
	Females..	84	3	7	9	10	11	8	6	2	6	8	5	8	1
24	Total.....	159	10	14	21	18	9	13	9	14	17	12	13	8	1
	Males.....	78	5	7	4	7	4	8	5	7	8	9	7	6	1
	Females..	81	5	7	17	11	5	5	4	7	9	3	6	2	---
25	Total.....	127	9	8	11	8	12	18	9	8	12	11	14	6	1
	Males.....	56	3	3	5	3	5	9	4	3	4	5	9	3	---
	Females..	71	6	5	6	5	7	9	5	5	8	6	5	3	1
26	Total.....	128	12	11	14	4	11	11	7	6	12	20	10	10	---
	Males.....	63	4	6	9	3	6	4	4	2	5	9	6	5	---
	Females..	65	8	5	5	1	5	7	3	4	7	11	4	5	---
27	Total.....	125	8	5	15	11	20	10	7	9	12	15	8	5	---
	Males.....	53	4	5	4	7	12	3	1	1	4	5	5	2	---
	Females..	72	4	---	11	4	8	7	6	8	8	10	3	3	---
28	Total.....	146	7	12	12	12	15	9	15	11	19	10	11	13	---
	Males.....	72	4	5	1	6	9	6	9	4	11	3	5	9	---
	Females..	74	3	7	11	6	6	3	6	7	8	7	6	4	---
29	Total.....	89	5	3	3	12	6	8	8	12	6	10	8	7	1
	Males.....	43	3	3	1	4	3	4	3	5	4	3	4	5	1
	Females..	46	2	---	2	8	3	4	5	7	2	7	4	2	---
30	Total.....	111	8	10	8	14	12	4	7	10	11	12	12	3	---
	Males.....	56	3	4	4	6	5	3	4	4	4	8	9	2	---
	Females..	55	5	6	4	8	7	1	3	6	7	4	3	1	---
31	Total.....	84	3	4	7	8	7	12	4	11	9	10	4	5	---
	Males.....	34	1	2	5	2	4	4	1	3	5	3	1	3	---
	Females..	50	2	2	2	6	3	8	3	8	4	7	3	2	---
32	Total.....	117	5	6	6	12	11	12	5	11	15	13	10	11	---
	Males.....	60	2	3	3	3	7	6	4	7	5	8	6	6	---
	Females..	57	3	3	3	9	4	6	1	4	10	5	4	5	---
33	Total.....	110	14	8	8	10	7	5	10	12	11	9	9	7	---
	Males.....	50	7	2	7	4	3	2	5	6	3	4	5	2	---
	Females..	60	7	6	1	6	4	3	5	6	8	5	4	5	---
34	Total.....	96	6	8	7	8	11	14	6	8	7	5	9	7	---
	Males.....	46	3	5	1	2	7	9	1	6	2	4	4	2	---
	Females..	50	3	3	6	6	4	5	5	2	5	1	5	5	---

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
35.....	Total.....	150	14	18	14	11	19	12	11	11	9	19	9	12	.....
	Males.....	77	7	7	7	7	5	7	6	4	5	11	6	5	.....
	Females..	73	7	11	7	4	5	5	5	7	4	8	3	7	.....
36.....	Total.....	96	4	7	5	9	8	9	7	5	6	14	11	11	.....
	Males.....	49	3	3	1	3	4	6	5	1	3	6	5	9	.....
	Females..	47	1	4	4	6	4	3	2	4	3	8	6	2	.....
37.....	Total.....	75	4	3	7	13	8	6	5	3	7	4	4	11	.....
	Males.....	32	2	.....	2	7	2	3	2	2	2	2	1	7	.....
	Females..	43	2	3	5	6	6	3	3	1	5	2	3	4	.....
38.....	Total.....	98	8	6	10	5	8	10	9	5	10	5	13	9	.....
	Males.....	53	5	2	4	2	6	4	5	3	4	2	10	6	.....
	Females..	45	3	4	6	3	2	6	4	2	6	3	3	3	.....
39.....	Total.....	87	6	6	11	5	6	8	9	4	10	5	10	7	.....
	Males.....	41	2	5	5	2	3	3	4	3	4	2	5	3	.....
	Females..	46	4	1	6	3	3	5	5	1	6	3	5	4	.....
40.....	Total.....	125	6	12	5	16	12	10	6	7	14	10	13	12	2
	Males.....	66	1	5	3	7	8	2	4	5	10	7	8	5	1
	Females..	59	5	7	2	9	4	8	2	2	4	3	5	7	1
41.....	Total.....	73	7	7	10	5	7	8	6	7	4	1	5	6	.....
	Males.....	31	3	4	6	2	1	4	5	2	.....	2	2	.....	
	Females..	42	4	3	4	3	6	4	1	5	4	1	3	4	.....
42.....	Total.....	113	8	9	4	13	7	8	11	11	12	7	11	12	.....
	Males.....	50	2	3	1	11	2	3	5	8	4	3	5	3	.....
	Females..	63	6	6	3	2	5	5	6	3	8	4	6	9	.....
43.....	Total.....	85	8	6	9	7	7	4	7	7	8	8	7	7	.....
	Males.....	43	6	2	5	3	5	3	2	4	3	4	3	3	.....
	Females..	42	2	4	4	4	2	1	5	3	5	4	4	4	.....
44.....	Total.....	92	6	7	10	6	14	6	10	6	4	5	7	11	.....
	Males.....	55	2	3	8	5	7	5	6	4	3	4	3	5	.....
	Females..	37	4	4	2	1	7	1	4	2	1	1	4	6	.....
45.....	Total.....	116	11	9	13	7	11	7	11	10	8	8	11	9	1
	Males.....	65	9	3	6	3	8	1	4	6	7	3	9	6	.....
	Females..	51	2	6	7	4	3	6	7	4	1	5	2	3	1
46.....	Total.....	70	3	2	8	6	11	4	6	4	6	8	4	8	.....
	Males.....	45	3	2	3	4	6	2	3	2	4	5	3	8	.....
	Females..	25	.....	.....	5	2	5	2	3	2	2	3	1	.....	.....
47.....	Total.....	84	3	8	7	11	9	8	7	9	4	5	7	6	.....
	Males.....	41	3	3	3	6	8	3	2	3	1	2	2	5	.....
	Females..	43	.....	5	4	5	1	5	5	6	3	3	5	1	.....

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	YEAR, 1882.	MONTHS, 1882.												
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
48	Total.....	93	5	8	8	6	5	6	11	10	7	6	12	7	2	
	Males.....	46	1	5	2	3	3	3	6	5	4	3	7	4		
	Females..	47	4	3	6	3	2	3	5	5	3	3	5	3	2	
49	Total.....	81	9	7	8	6	10	6	5	4	8	6	3	9		
	Males.....	45	6	4	5	4	6	3	4	2	3	3	2	3		
	Females..	36	3	3	3	2	4	3	1	2	5	3	1	6		
50	Total.....	115	5	10	7	14	10	13	8	3	14	10	9	12		
	Males.....	69	4	6	5	7	3	7	6	3	8	7	5	8		
	Females..	46	1	4	2	7	7	6	2		6	3	4	4		
51	Total.....	64	4	4	5	6	8	6	3	7	4	4	8	5		
	Males.....	33	2	2	4	3	3	4	1	2	4	1	5	2		
	Females..	31	2	2	1	3	5	2	2	5		3	3	3		
52	Total.....	107	4	5	11	6	8	9	10	10	7	12	12	13		
	Males.....	57	2	5	6	4	6	5	8	3		8	4	6		
	Females..	50	2		5	2	2	4	2	7	7	4	8	7		
53	Total.....	90	3	9	8	8	8	8	7	9	5	9	8	8		
	Males.....	51		6	7	5	5	3	4	5	3	4	4	5		
	Females..	39	3	3	1	3	3	5	3	4	2	5	4	3		
54	Total.....	98	9	7	12	9	9	9	8	7	8	5	3	12		
	Males.....	55	4	4	9	7	4	6	3	4	4	3	1	6		
	Females..	43	5	3	3	2	5	3	5	3	4	2	2	6		
55	Total.....	96	6	5	12	10	9	6	10	3	8	6	6	12	1	
	Males.....	51	2	4	6	5	4	4	3	3	5	4	3	7	1	
	Females..	45	4	1	6	5	5	2	7		3	4	3	5		
56	Total.....	111	4	6	13	6	11	6	12	11	11	6	11	14		
	Males.....	57	2	2	7	6	5	5	5	5	4	2	4	10		
	Females..	54	2	4	6		6	1	7	6	7	4	7	4		
57	Total.....	90	3	8	11	9	9	5	9	8	6	12	7	3		
	Males.....	52	3	4	4	6	7	3	8	4	4	7	2			
	Females..	38		4	7	3	2	2	1	4	2	5	5	3		
58	Total.....	91	5	7	11	6	6	8	8	2	9	7	5	17		
	Males.....	58	4	5	9	4	2	4	2	1	8	4	4	11		
	Females..	33	1	2	2	2	4	4	6	1	1	3	1	6		
59	Total.....	82	5	4		10	7	8	8	6	5	5	7	8		
	Males.....	45	3	1	5	6	2	5	5	2	4	3	5	4		
	Females..	37	2	3	4	4	5	3	3	4	1	2	2	4		
60	Total.....	116	7	8	12	9	7	17	11	8	7	7	10	12	1	
	Males.....	64	5	4	5	4	4	8	8	3	4	3	6	9	1	
	Females..	52	2	4	7	5	3	9	3	5	3	4	4	3		

TABLE VIII.—*Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1882; distinguishing the Months in which they Died, their Age in Months at Death, the Months in which they were Born, and whether Born in the Year of Death or in the Previous Year.*

Months in which Births and Deaths Occurred.	NUMBER BORN IN EACH MONTH OF YEAR OF DEATH.				NUMBER OF CHILDREN WHO DIED AT EACH AGE IN MONTHS.												Number Born in each Month of Year Preceding Year of Death.			DEATHS BY MONTHS.				ALL AGED UN- DER ONE YEAR.					
	Year.	Total.	Sex.	No. of each Sex.	-1.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	No. of each Sex.	Total.	Year.	OF THOSE BORN IN YEAR OF DEATH.		OF THOSE BORN IN PREVIOUS YEAR.		Total.	Sex.	Total.	Sex.	Total.	
																				Sex.	Total.	Sex.	Total.						
January.....	1882	285	Males... Females...	175 110	71 41	4 4	6 4	4 3	8 4	7 6	3 3	2 1	4 2	5 2	4 3	-----	-----	-----	1881	71	112	51 33	84	122 74	196				
February....	1882	329	Males... Females...	198 131	78 53	10 10	5 2	5 8	9 5	3 3	4 3	2 3	3 5	2 4	2 3	4 2	4 3	7	151	88	151	41 43	84	129 103	235				
March.....	1882	315	Males... Females...	166 149	81 69	16 6	9 7	6 6	9 3	6 4	8 3	10 5	7 3	5 3	3 4	9 4	13	188	106	188	60 39	99	166 121	287					
April.....	1882	340	Males... Females...	181 159	83 61	12 9	13 8	5 6	3 6	0 6	9 6	8 3	4 2	11 5	7 4	1 1	18	197	113	197	56 33	89	169 117	286					
May.....	1882	304	Males... Females...	150 145	82 67	15 13	11 7	11 14	7 4	3 3	8 5	7 6	6 3	6 5	7 3	5 10	24	244	134	244	47 34	81	181 144	325					
June.....	1882	276	Males... Females...	152 118	80 57	8 16	9 9	7 6	5 4	3 3	6 3	3 4	4 2	4 3	8 4	27 18	45	213	117	213	34 16	50	151 112	263					
July.....	1882	286	Males... Females...	164 122	80 66	9 11	20 9	6 13	7 7	11 9	3 8	6 5	8 2	4 5	8 2	40 23	63	279	156	279	29 22	51	185 145	330					
August.....	1882	278	Males... Females...	156 122	100 78	23 13	16 15	11 23	13 11	18 17	13 11	7 5	7 12	5 10	12 29	72	431	232	421	37 39	76	239 228	497						
September...	1882	223	Males... Females...	130 84	86 53	25 17	23 13	20 17	18 13	16 18	21 6	12 10	8 6	9 10	14 19	57 40	97	406	241	406	31 35	66	272 200	472					
October.....	1882	210	Males... Females...	127 83	65 62	27 18	14 8	13 16	7 8	4 9	10 12	8 6	10 5	6 2	5 5	61 67	128	356	189	356	11 7	18	210 164	374					
November...	1882	181	Males... Females...	95 86	81 69	10 14	13 10	7 7	6 6	13 6	9 4	2 5	2 8	6 4	4 2	4 50	130	287	132	287	4 4	8	156 139	295					
December...	1882	228	Males... Females...	118 110	118 110	14 17	22 7	14 3	10 12	10 3	7 4	5 4	6 4	6 2	5 1	68 51	119	395	221	395	-----	-----	221 174	395					

# DEATHS—INFANT MORTALITY.

All aged under One Year.	1881.	1882.																	
		Males....	1,830	1044	169	148	100	101	75	74	55	29	18	12	5	.....	.....	.....	.....
		Females....	1,419	786	154	93	153	70	60	63	36	33	14	4	1	.....	.....	.....	.....
		Total.....	3,249	1830	323	241	203	171	135	137	91	62	32	16	6	.....	.....	.....	.....
		Males....	.....	.....	4	11	15	29	32	44	34	48	58	53	73	401	.....	.....	.....
		Females....	.....	.....	4	6	17	18	24	29	22	33	42	51	59	305	.....	.....	.....
		Total.....	706	.....	8	17	32	47	56	73	56	81	100	104	132	706	.....	.....	.....
		Males....	.....	1044	173	159	115	130	107	118	89	77	76	65	78	.....	.....	.....	.....
		Females....	.....	786	153	99	122	88	84	92	58	66	56	55	60	.....	.....	.....	.....
		Total.....	3,955	1830	331	258	237	218	191	210	147	143	132	120	138	.....	.....	.....	.....
																		2,231	.....
																		1,724	.....
																		.....	3,955

4 Excluding 2 males and 5 females, month of death unknown; and 48 deaths of persons of unknown sex,—50 in all.



TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
85.....	Total.....	42	3	6	3	3	2	3	1	3	4	4	1	9	---
	Males.....	24	3	2	---	1	2	3	---	2	3	2	1	5	---
	Females..	18	---	4	3	2	---	---	1	1	1	2	---	4	---
86.....	Total.....	26	1	---	2	2	3	2	4	3	1	3	4	1	---
	Males.....	18	---	---	1	---	3	2	3	1	1	3	3	1	---
	Females..	8	1	---	1	2	---	---	1	2	---	---	1	---	---
87.....	Total.....	39	1	4	6	2	6	4	1	2	4	2	4	3	---
	Males.....	19	1	2	3	1	4	1	1	---	2	1	2	1	---
	Females..	20	---	2	3	1	2	3	---	2	2	1	2	2	---
88.....	Total.....	24	1	3	2	1	4	3	1	---	5	2	1	1	---
	Males.....	11	---	1	1	1	4	---	---	2	---	1	1	---	---
	Females..	13	1	2	1	---	---	3	1	---	3	2	---	---	---
89.....	Total.....	23	2	1	1	2	3	2	2	1	2	1	4	2	---
	Males.....	12	1	1	1	1	2	2	2	---	1	---	---	1	---
	Females..	11	1	---	---	1	1	---	---	1	1	1	4	1	---
90.....	Total.....	19	1	---	1	2	5	1	---	---	3	3	---	3	---
	Males.....	9	---	---	---	2	---	---	---	---	2	2	---	3	---
	Females..	10	1	---	1	---	5	1	---	---	1	1	---	---	---
91.....	Total.....	9	1	---	2	1	1	---	---	2	---	---	1	1	---
	Males.....	2	---	---	1	1	---	---	---	---	---	---	---	---	---
	Females..	7	1	---	1	---	1	---	---	2	---	---	1	1	---
92.....	Total.....	15	1	---	4	---	1	---	1	---	2	1	---	5	---
	Males.....	10	---	---	3	---	1	---	1	---	2	1	---	2	---
	Females..	5	1	---	1	---	---	---	---	---	---	---	---	3	---
93.....	Total.....	10	---	1	---	---	3	---	---	2	---	2	1	1	---
	Males.....	4	---	---	---	---	---	---	---	2	---	---	1	1	---
	Females..	6	---	1	---	---	3	---	---	---	---	2	---	---	---
94.....	Total.....	14	3	1	1	---	1	---	2	1	1	1	1	2	---
	Males.....	9	1	1	1	---	---	---	2	---	1	---	1	2	---
	Females..	5	2	---	---	---	1	---	---	1	---	1	---	---	---
95.....	Total.....	13	---	2	1	1	2	---	1	---	3	1	---	2	---
	Males.....	6	---	1	1	1	1	---	---	---	---	---	---	2	---
	Females..	7	---	1	---	---	1	---	1	---	3	1	---	---	---
96.....	Total.....	5	1	---	---	1	---	---	---	---	---	1	---	2	---
	Males.....	3	---	---	---	1	---	---	---	---	---	---	---	2	---
	Females..	2	1	---	---	---	---	---	---	---	---	1	---	---	---
97.....	Females..	3	---	---	---	---	---	---	---	1	---	2	---	---	---

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total.....	3			1			1					1		
98.....	Males.....	2						1					1		
	Females.....	1			1										
99.....	Females.....	1						1							
100.....	Males.....	2			1		1								
103.....	Males.....	2			1					1					
104.....	Females.....	1												1	
107.....	Males.....	1		1											
108.....	Males.....	1		1											
109.....	Males.....	1	1												
115.....	Females.....	1				1									
116.....	Males.....	1							1						
126.....	Males.....	1										1			
	Total.....	268	19	11	11	18	35	19	21	19	22	24	18	25	26
Unknown.	Males.....	151	11	5	5	10	16	9	9	11	10	18	13	15	19
	Females.....	114	8	6	6	8	18	10	11	8	11	6	5	10	7
	Unknown.....	3					1		1		1				

## INFANT MORTALITY.

More still-births were returned for the year 1882 than for any previous year since 1878. In 1882, the per cent of still-births to total deaths was 4.82, and the average for the nine years 1874-1882 was 4.90. The per cent of still-births to total births, in 1882, was 2.14. The subject of infant mortality may be studied also in Exhibits F and G, and in Tables IV., V., and VI., on preceding pages, and in Exhibits 3, 4, and 5, and Table VIII., following.

**EXHIBIT 2.**—*The Relation of Still-births to all Deaths Returned as having occurred in Michigan during the Years 1877 to 1882, inclusive, corrected by means of the Returns of Births.*

	TOTAL DEATHS AND STILL-BIRTHS.								
	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.
All Deaths.....	12,500	11,990	12,576	12,919	12,766	14,407	16,102	19,238	16,426
Number of Still-births.....	464	629	646	720	793	749	738	691	792
Per Cent of Still-births to Total Deaths.....	3.71	5.25	5.14	5.57	6.31	5.20	4.58	3.60	4.82

TABLE VIII.—Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1882; distinguishing the Months in which they Died, their Age in Months at Death, the Months in which they were Born, and whether Born in the Year of Death or in the Previous Year.\*

Months in which Births and Deaths Occurred.	NUMBER BORN IN EACH MONTH OF YEAR OF DEATH.				NUMBER OF CHILDREN WHO DIED AT EACH AGE IN MONTHS.												Number Born in each Month of Year Preceding Year of Death.			DEATHS BY MONTH.							
	Year.	Total.	Sex.	No. of each Sex.	-1.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	No. of each Sex.	Total.	Year.	OF THOSE BORN IN YEAR OF DEATH.		OF THOSE BORN IN PREVIOUS YEAR.		ALL AGED UNDER ONE YEAR.			
																				Sex.	Total.	Sex.	Total.	Sex.	Total.		
January.....	285	Males... Females...	175 110	41 4	4 4	6 4	4 3	8 4	7 6	3 1	2 1	4 5	4 3	---	---	---	---	---	---	1882	71 41	112	51 33	84	122 74	196	
February....	329	Males... Females...	198 131	78 53	10 2	5 8	5 3	9 3	4 3	2 8	3 3	4 3	2 4	4 2	3 4	4 3	7	---	---	1881	88 63	151	41 43	84	129 106	235	
March.....	315	Males... Females...	166 149	81 69	16 6	9 7	6 6	9 3	6 6	8 4	10 3	7 5	5 3	2 4	9 4	13	---	---	---	1882	105 82	188	60 39	99	165 121	287	
April.....	340	Males... Females...	181 159	83 61	12 9	13 8	5 6	3 6	9 6	3 6	8 4	4 2	5 1	7 5	8 10	18	---	---	---	1881	113 84	197	56 33	89	169 117	286	
May.....	394	Males... Females...	159 145	82 67	15 13	11 7	15 14	4 3	7 5	7 6	3 5	10 6	6 3	7 5	14 10	24	---	---	---	1882	134 110	244	47 34	81	181 144	325	
June.....	270	Males... Females...	152 118	80 57	8 16	8 9	7 6	5 4	9 4	6 3	4 4	3 2	4 3	4 4	8 18	45	---	---	---	1881	117 96	213	34 16	50	151 112	263	
July.....	236	Males... Females...	164 122	89 66	9 11	20 13	7 9	11 8	14 5	3 2	6 8	4 5	8 2	4 8	40 23	63	---	---	---	1882	156 123	279	29 22	51	185 145	330	
August.....	278	Males... Females...	156 122	100 78	23 18	16 15	11 23	33 16	14 11	18 17	17 11	13 10	7 6	5 10	12 19	43 40	72	---	---	---	1881	232 189	421	37 39	76	269 228	497
September..	223	Males... Females...	139 84	86 53	25 17	23 13	20 13	18 18	16 6	21 6	10 8	12 6	8 10	9 19	14 40	97	---	---	---	1882	241 165	406	31 35	65	272 200	472	
October.....	210	Males... Females...	127 83	95 62	27 15	14 8	13 10	7 9	4 12	10 8	8 10	6 2	5 3	67	128	---	---	---	---	1881	120 157	356	11 7	18	210 164	374	
November...	181	Males... Females...	95 86	81 69	10 14	12 7	7 6	13 6	9 4	4 5	8 4	2 2	6 4	4 4	70 50	120	---	---	---	1882	152 135	287	4 4	8	156 139	295	
December...	228	Males... Females...	118 110	118 110	14 17	22 7	14 3	10 12	10 3	7 4	5 4	4 7	6 2	5 1	68 51	119	---	---	---	1881	221 174	393	---	---	221 174	395	

DEATHS BY AGES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Of those Born in Year of Death.	1882.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Of those Born in Previous Year.	1881.	Males....	1,830	1044	169	148	109	101	75	74	55	29	18	13	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

\* Excluding 2 males and 5 females, month of death unknown; and 48 deaths of persons of unknown sex,—50 in all.

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
11.....	Total.....	136	7	9	12	13	10	12	16	8	5	19	10	15	---
	Males.....	60	3	1	8	8	3	4	8	5	---	10	4	6	---
	Females..	76	4	8	4	5	7	8	8	3	5	9	6	9	---
12.....	Total.....	140	11	7	11	11	10	18	12	12	10	16	15	7	---
	Males.....	64	7	2	2	3	8	9	6	6	4	6	9	2	---
	Females..	76	4	5	9	8	2	9	6	6	6	10	6	5	---
13.....	Total.....	113	5	9	12	9	7	11	9	11	8	12	14	6	---
	Males.....	59	1	1	6	7	2	6	5	8	3	9	6	5	---
	Females..	54	4	8	6	2	5	5	4	3	5	3	8	1	---
14.....	Total.....	113	11	10	6	6	12	9	8	7	9	13	13	8	1
	Males.....	50	5	4	3	4	5	3	3	6	4	4	7	2	---
	Females..	63	6	6	3	2	7	6	5	1	5	9	6	6	1
15.....	Total.....	98	4	11	9	8	8	9	9	7	6	8	9	10	---
	Males.....	39	2	3	4	2	4	5	5	1	3	1	5	4	---
	Females..	59	2	8	5	6	4	4	4	6	3	7	4	6	---
16.....	Total.....	112	8	12	9	9	8	11	8	13	7	10	7	10	---
	Males.....	40	3	6	3	5	4	2	2	1	3	3	4	4	---
	Females..	72	5	6	6	4	4	9	6	12	4	7	3	6	---
17.....	Total.....	163	12	12	15	14	20	16	16	10	9	12	13	12	2
	Males.....	80	7	7	4	5	11	11	9	2	4	8	6	5	1
	Females..	83	5	5	11	9	9	5	7	8	5	4	7	7	1
18.....	Total.....	149	6	9	11	17	22	10	11	4	16	21	11	10	1
	Males.....	56	4	4	4	7	10	2	4	---	5	6	3	6	1
	Females..	93	2	5	7	10	12	8	7	4	11	15	8	4	---
19.....	Total.....	143	7	15	13	15	11	15	12	5	16	9	19	6	---
	Males.....	68	3	9	5	10	6	7	4	2	9	3	8	2	---
	Females..	75	4	6	8	5	5	8	8	3	7	6	11	4	---
20.....	Total.....	166	5	11	13	11	19	13	14	18	12	18	20	12	---
	Males.....	88	2	7	9	5	7	8	7	8	6	8	15	6	---
	Females..	77	3	4	4	6	12	5	7	9	6	10	5	6	---
	Unknown	1	---	---	---	---	---	---	---	1	---	---	---	---	---
21.....	Total.....	150	5	13	12	13	15	12	15	12	9	20	11	13	---
	Males.....	77	2	7	6	3	8	7	6	8	5	13	5	7	---
	Females..	73	3	6	6	10	7	5	9	4	4	7	6	6	---
22.....	Total.....	179	12	14	18	19	16	10	15	16	16	15	14	12	2
	Males.....	94	9	8	8	6	8	6	9	8	9	9	5	7	2
	Females..	85	3	6	10	13	8	4	6	8	7	6	9	5	---



## BIRTH-MONTHS MOST FAVORABLE TO LIFE OF CHILD.

The subject of infant mortality is one of very great importance and demands serious attention. Many causes combine to produce the annual destruction of infant life, but they ought not to be an effectual barrier against determined efforts to diminish it. There is a wide field for labor in this connection, and some grand results have already been accomplished.

The method of finding the ratio of deaths under one year old to births is illustrated in Exhibit 3. It shows, by sex, the number of children born in each month of the year 1881, and the number of these that died before the age of one year. It will be observed that of the 34,719 births in 1881, 12.52 per cent of them died before reaching the age of one year; that is, about 13 in every hundred, or 125 in every thousand of the children born in Michigan in 1881 died before their first birthday. In a series of ten years, 1873-1882, the average ratio of registered births to deaths of children under one year of age, was 10.63, ranging from 9.41 in 1879, to 12.52 in 1882.

The subject of the comparative probability of life or death of children before reaching the age of one year, is one of considerable interest. The evidence of the years 1872-1882 tends to prove that the birth-months showing the greatest probability of death before the age of one year were February and April, and those showing the least were September and November. It has been the rule since the registration in this State, that the birth-months most favorable to child life were in the latter months of the year.

Exhibit 4, on page 156, shows the distribution throughout the years 1881 and 1882 of the deaths of children born in 1881 who died before the age of one year. It may be studied as follows: 358 children were born in January, 1881, who died aged under one year, of which 122 died in January, the month of birth, 24 died in February, 14 died in March, and 12 died in April, etc. In a similar manner can be traced the months of deaths of children born in each month of the year 1881, who died under one year of age. Of the 4,346 children born in 1881, who died before reaching the age of one year, 1,780 died in the month of birth, 406 lived to the age of one month, 311 lived to the age of two months, etc. From the first diagonal column it is seen that a very large proportion of the children who die under one year of age do so before they are one month old, being 40.96 per cent of the entire number. The last column in the exhibit shows what per cent of the children born in each month of the year 1881 died during the month of birth. The average for the year was 5.13, and the months of December and November show the highest and lowest per cents respectively.

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
35.....	Total.....	150	14	18	14	11	19	19	11	11	9	19	9	13	---
	Males.....	77	7	7	7	7	5	7	6	4	5	11	6	5	---
	Females..	73	7	11	7	4	5	5	5	7	4	8	3	7	---
36.....	Total.....	96	4	7	5	9	8	9	7	5	6	14	11	11	---
	Males.....	49	3	3	1	3	4	6	5	1	3	6	5	9	---
	Females..	47	1	4	4	6	4	3	2	4	3	8	6	2	---
37.....	Total.....	75	4	3	7	13	8	6	5	3	7	4	4	11	---
	Males.....	32	2	---	2	7	2	3	2	2	2	2	1	7	---
	Females..	43	2	3	5	6	6	3	3	1	5	2	3	4	---
38.....	Total.....	98	8	6	10	5	8	10	9	5	10	5	13	9	---
	Males.....	53	5	2	4	2	6	4	5	3	4	2	10	6	---
	Females..	45	3	4	6	3	2	6	4	2	6	3	3	3	---
39.....	Total.....	87	6	6	11	5	6	8	9	4	10	5	10	7	---
	Males.....	41	2	5	5	2	3	3	4	3	4	2	5	3	---
	Females..	46	4	1	6	3	3	5	5	1	6	3	5	4	---
40.....	Total.....	125	6	12	5	16	12	10	6	7	14	10	13	12	2
	Males.....	66	1	5	3	7	8	2	4	5	10	7	8	5	1
	Females..	59	5	7	2	9	4	8	2	2	4	3	5	7	1
41.....	Total.....	73	7	7	10	5	7	8	6	7	4	1	5	6	---
	Males.....	31	3	4	6	2	1	4	5	2	---	---	2	2	---
	Females..	42	4	3	4	3	6	4	1	5	4	1	3	4	---
42.....	Total.....	113	8	9	4	13	7	8	11	11	12	7	11	12	---
	Males.....	50	2	3	1	11	2	3	5	8	4	3	5	3	---
	Females..	63	6	6	3	2	5	5	6	3	8	4	6	9	---
43.....	Total.....	85	8	6	9	7	7	4	7	7	8	8	7	7	---
	Males.....	43	6	2	5	3	5	3	2	4	3	4	3	3	---
	Females..	42	2	4	4	4	2	1	5	3	5	4	4	4	---
44.....	Total.....	92	6	7	10	6	14	6	10	6	4	5	7	11	---
	Males.....	55	2	3	8	5	7	5	6	4	3	4	3	5	---
	Females..	37	4	4	2	1	7	1	4	2	1	1	4	6	---
45.....	Total.....	116	11	9	13	7	11	7	11	10	8	8	11	9	1
	Males.....	65	9	3	6	3	8	1	4	6	7	3	9	6	---
	Females..	51	2	6	7	4	3	6	7	4	1	5	2	3	1
46.....	Total.....	70	3	2	8	6	11	4	6	4	6	8	4	8	---
	Males.....	45	3	2	3	4	6	2	3	2	4	5	3	8	---
	Females..	25	---	---	5	2	5	2	3	2	2	3	1	---	---
47.....	Total.....	84	3	8	7	11	9	8	7	9	4	5	7	6	---
	Males.....	41	3	3	3	6	8	3	2	3	1	2	2	5	---
	Females..	43	---	5	4	5	1	5	5	6	3	3	5	1	---

## RELATIONS OF DEATHS OF CHILDREN TO BIRTHS.

The relation of decedents aged under one month to births may be seen in Exhibit 5. The per cent of such deaths to births for the year 1882 was 5.05, and for the year 1881 it was 5.28. The average per cent for ten years, 1873-1882, is 4.62 for total, 5.03 for males, and 3.99 for females. It is thus seen that the per cent of males is greater than of the females, or the total of both sexes.

EXHIBIT 5.—*The Relation, by Months, by Total, and by Sex, of the Decedents Aged under One Month to the Births in Michigan during the Year ending December 31, 1882.*

SEX, ETC., SPECIFIED.	YEAR, 1882.	MONTHS, 1882.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
{ Births..... Deaths aged under one month. Per Cent of Deaths to Births..	37,026	2,496	2,536	3,004	3,059	3,031	2,733	3,100	3,521	3,444	3,379	3,215	3,477	41
	1,870	113	134	153	145	153	138	159	180	143	159	154	235	6
	5.05	4.55	5.28	5.01	4.74	5.05	5.05	5.13	5.11	4.19	4.71	4.79	6.76	14.63
{ Births..... Deaths aged under one month. Per Cent of Deaths to Births..	19,179	1,307	1,305	1,565	1,598	1,553	1,380	1,623	1,823	1,814	1,756	1,648	1,795	13
	1,045	71	78	81	83	82	80	89	100	86	95	81	118	1
	5.45	5.43	5.98	5.18	5.19	5.28	5.80	5.49	5.49	4.74	5.41	4.92	6.57	7.69
{ Births..... Deaths aged under one month. Per Cent of Deaths to Births..	17,787	1,176	1,228	1,457	1,456	1,473	1,350	1,473	1,694	1,626	1,619	1,566	1,675	24
	788	41	53	69	61	67	57	66	78	53	62	69	110	3
	4.44	3.49	4.33	4.80	4.19	4.55	4.96	4.48	4.60	3.26	3.83	4.43	6.57	12.50
{ Births..... Deaths aged under one month.	90	3	3	2	5	5	3	5	4	4	4	11	7	4
	36	1	3	2	1	4	1	4	2	3	2	4	7	2

\* Still-births included.

## DEATHS OF CENTENARIANS.

According to the returns in 1882, eleven persons—nine males and two females—are said to have survived the age of one hundred years. The accuracy of the ages of these decedents may not be entirely trustworthy, but the facts concerning them are given in Table IX, as they were returned to us.

TABLE IX.—Deaths Returned as having occurred in Michigan during the Year 1882, of Persons Aged One hundred Years and Over, Exhibiting certain Details concerning them included in the Returns.

NAMES OF CENTENARIANS, 1882.	Sex.	Color.	Married, Single, or Widowed.	Birthplace.	AGE.			Occupation.	PLACE OF DEATH.		DATE OF DEATH, 1882.		Cause of Death.
					Years.	Months.	Days.		Town.	County.	Month.	Day.	
Indefinite.	Male	White.	Unknown.	Canada	123	.....	.....	Laborer	{ Sault Ste. Marie.	Chippewa	October	7	Old age.
.....	Male	Indian.	Widower.	Illinois	100	.....	.....	Laborer	Spaulding	Menominee	March	11	Old age.
.....	Male	White.	Widower.	Canada	108	.....	.....	Unknown	Shelby	Oceana	February	12	Old age.
.....	Male	White.	Single.	Germany	103	.....	.....	Laborer	Lexington	Sanilac	March	18	Old age.
.....	Male	White.	Widower.	Scotland	116	.....	.....	Farmer	Brockway	St. Clair	July	19	Old age.
.....	Male	White.	Widower.	Maryland	103	3	29	Farmer	Carmel	Eaton	August	5	Old age.
.....	Female	White.	Widow	New York	115	.....	.....	Housekeep'r	Saugatuck	Allegan	April	21	Old age.
.....	Male	Black.	Widower.	Unknown	107	.....	.....	Unknown	Berrien	Berrien	February	24	Old age.
.....	Female	Black.	Widow	N. Carolina	104	.....	.....	Housekeep'r	Co. house	Cass	December	1	Old age.
.....	Male	White.	Single.	Unknown	100	.....	.....	Tinker	Fairfield	Lenawee	May	10	Old age.
.....	Male	White.	Widower.	England	100	.....	.....	Farmer	Flint	Genesee	January	4	Old age.

Col. Blaworth,  
Samuel Bickley, Jr.,

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1882.	MONTHS, 1882.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
73.....	Total.....	122	10	3	13	10	6	12	9	11	6	8	10	23	---
	Males.....	70	6	3	7	5	6	8	5	5	5	3	3	14	---
	Females..	52	4	---	6	5	---	5	4	6	1	5	7	9	---
74.....	Total.....	105	5	8	6	9	12	8	9	6	5	14	6	17	---
	Males.....	61	3	5	5	5	7	2	5	4	1	10	4	10	---
	Females..	44	2	3	1	4	5	6	4	2	4	4	2	7	---
75.....	Total.....	116	5	11	11	10	14	12	7	6	10	5	11	14	---
	Males.....	70	3	4	7	7	8	9	4	4	6	4	6	8	---
	Females..	46	2	7	4	3	6	3	3	2	4	1	5	6	---
76.....	Total.....	117	4	5	10	14	11	7	9	12	11	14	9	11	---
	Males.....	68	1	3	5	7	6	6	7	7	7	5	5	7	---
	Females..	51	3	2	5	7	5	1	2	5	4	9	4	4	---
77.....	Total.....	91	7	10	8	10	5	5	7	6	12	4	7	10	---
	Males.....	60	3	7	6	9	3	3	5	3	7	3	5	6	---
	Females..	31	4	3	2	1	2	2	2	3	5	1	2	4	---
78.....	Total.....	98	2	9	7	9	9	4	8	5	9	9	10	17	---
	Males.....	51	2	3	4	5	3	1	5	4	5	5	3	11	---
	Females..	47	---	6	3	4	6	3	3	1	4	4	7	6	---
79.....	Total.....	79	5	5	7	8	11	2	8	2	8	3	7	13	---
	Males.....	48	3	3	5	3	9	1	5	1	8	2	2	6	---
	Females..	31	2	2	2	5	2	1	3	1	---	1	5	7	---
80.....	Total.....	81	4	5	5	4	7	13	4	7	6	5	9	9	---
	Males.....	43	3	2	---	2	4	7	2	4	2	3	4	7	---
	Females..	39	1	3	5	2	3	6	2	3	4	2	5	2	---
81.....	Total.....	71	6	5	6	5	8	7	1	6	6	5	10	5	---
	Males.....	46	4	3	5	2	3	5	---	4	5	5	7	2	---
	Females..	25	2	2	1	3	5	2	1	2	1	---	3	3	---
82.....	Total.....	106	4	4	11	6	12	10	12	6	10	11	10	10	---
	Males.....	53	1	2	7	4	6	3	7	4	6	3	7	3	---
	Females..	53	3	2	4	2	6	7	5	2	4	8	3	7	---
83.....	Total.....	59	3	2	7	8	5	2	5	6	4	6	8	3	---
	Males.....	34	2	2	1	4	4	1	4	4	3	5	3	1	---
	Females..	25	1	---	6	4	1	1	1	2	1	1	5	2	---
84.....	Total.....	65	3	10	6	4	8	5	3	4	4	7	3	8	---
	Males.....	35	1	4	4	1	2	2	3	2	2	5	2	7	---
	Females..	30	2	6	2	3	6	3	---	2	2	2	1	1	---



## TOWNSHIPS IN WHICH NO DEATHS OCCURRED.

There were fifty-five townships in which it was reported that no deaths occurred in 1882. These townships represented a population of 8,317 in 1880. This is an unusually large number of townships reported as having no deaths during a year.

EXHIBIT I.—*Counties and Townships in which it is Reported that no Deaths Occurred in 1882.*

COUNTIES.	TOWNSHIPS HAVING NO DEATHS IN 1882.	POPULATION.			COUNTIES.	TOWNSHIPS HAVING NO DEATHS IN 1882.	POPULATION.		
		Total.	Males.	Fe- males.			Total.	Males.	Fe- males.
Total.....		8,317	5,083	3,234					
Alcona.....	Curtis.....*				Missaukee	Etna.....*			
Antrim.....	Forest Home.....	201	109	92		Bloomfield.....	76	57	19
Benzle.....	Lake.....	42	26	16		Forest.....	50	29	21
Charlevoix.....	Hudson.....	148	68	80	Montmorency	Richland.....	76	38	38
	Melrose.....	79	37	42		Montmorency.....*			
Clare.....	Frost.....	148	112	36	Muskegon	Rust.....*			
	Greenwood.....	235	189	46		Cedar Creek.....	356	194	162
Crawford.....	Frederick.....	171	119	52	Newaygo	Lincoln.....*			
	Baldwin.....	205	183	112	Ogemaw	Cummling.....	122	91	31
	Bark River.....*					Edwards.....	306	210	96
Delta.....	Bay De Noquets.....					Atherton.....*			
	Nahma.....	388	235	153	Oscoda.....	Comins.....*			
	Winona.....	78	43	35		Elmer.....*			
G. Traverse	Fife Lake.....	974	560	414		Greenwood.....*			
Huron.....	Gore.....	374	184	190		Long Lake.....*			
	White Rock.....	375	197	178	Otsego	Mentor.....*			
Isabella.....	Denver.....	260	149	111		Hayes.....	101	50	51
	Gilmore.....	261	144	117	Presque I.	Elmira.....	225	112	113
Kalkaska.....	Oliver.....*					Bismark.....	100	63	37
	Center.....*					Presque Isle.....	228	138	90
	Eden.....	92	49	43	Roscommon	Denton.....	210	162	48
Lake.....	Elk.....	156	123	33		Gerrish.....	214	196	18
	Glencoe.....	126	91	35	Sanilac	Nester.....	234	228	6
	Lake.....	90	57	33		Argyle.....	341	188	153
Leelanaw.....	Cleveland.....	395	204	191		Lamotte.....	301	152	149
Midland.....	Greendale.....*				Wexford	Greenwood.....	122	74	48
	Lincoln.....	173	99	74		Henderson.....	194	123	71
						South Branch.....*			

\* Organized since census was taken.





total.....	264	221	161	221	277	229	181	201	171	201	181	131	301	671	81	71	191	131	121	51	61	101	61	81	121	141	151	231	171	171	21	
Males.....	128	161	61	91	131	181	101	111	81	81	91	91	111	371	51	31	81	51	61	21	41	21	31	51	71	121	121	81	81	11		
Females.....	135	61	101	121	141	111	81	151	91	121	91	101	191	291	31	41	111	81	61	51	41	01	41	51	71	61	111	91	11			
Unknown.....	11	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Total.....	163	81	121	131	131	171	161	131	121	111	151	101	131	81	361	41	91	91	111	71	31	31	81	81	81	161	171	91	41	111		
Males.....	87	41	61	71	71	111	51	81	81	51	91	41	81	51	161	31	21	21	71	31	11	.....	11	31	41	31	121	131	71	31	71	
Females.....	76	41	61	81	61	61	111	51	41	61	61	61	51	31	201	11	71	71	41	41	21	.....	21	51	41	51	41	21	11	41		
Total.....	94	41	41	71	101	81	61	151	91	101	101	51	.....	381	101	61	51	51	91	41	11	61	11	21	.....	.....	.....	11	11	21	31	
Males.....	42	21	31	31	51	51	11	41	41	41	71	41	.....	191	51	21	21	11	31	11	.....	21	11	11	.....	.....	.....	11	11	11	21	
Females.....	51	21	11	41	51	21	51	21	111	51	31	61	51	.....	181	51	41	31	41	61	31	11	41	.....	11	.....	.....	.....	.....	.....	11	
Unknown.....	11	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Total.....	78	.....	91	111	91	41	111	61	71	61	41	71	41	.....	391	91	61	61	31	.....	31	.....	31	21	11	.....	.....	.....	21	11	21	11
Males.....	42	.....	41	41	41	11	71	51	41	31	41	41	21	.....	221	11	31	31	21	.....	21	.....	21	21	11	.....	.....	.....	21	11	11	.....
Females.....	36	.....	51	71	51	31	41	11	31	31	.....	31	21	.....	171	81	31	31	11	.....	11	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	80	31	.....	21	71	11	161	31	91	61	151	161	71	11	301	41	21	61	31	21	11	41	11	41	41	21	61	11	11	41	51	41
Males.....	47	11	.....	11	11	.....	101	21	61	21	101	61	41	11	181	11	.....	31	.....	21	.....	41	11	31	11	21	51	11	11	41	11	41
Females.....	33	21	.....	11	31	11	61	11	31	41	51	41	31	.....	121	31	21	31	31	.....	11	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	41	11	11	11	31	51	91	.....	51	51	.....	21	61	31	21	61	31	21	11	.....	11	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Males.....	20	11	.....	.....	21	31	51	.....	11	21	.....	11	51	.....	101	21	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Females.....	20	.....	11	11	11	21	41	.....	41	31	.....	11	11	21	101	41	31	11	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	191	41	21	261	91	221	151	151	121	131	161	161	.....	561	21	131	111	41	41	71	31	31	81	61	51	121	61	151	71	71	31	
Males.....	91	21	91	111	41	161	111	51	81	71	41	121	21	.....	301	111	21	31	31	11	11	21	61	11	21	91	31	101	21	41	.....	
Females.....	99	21	121	151	51	61	111	101	71	51	81	41	141	.....	251	101	111	81	11	31	61	21	21	51	31	31	51	51	31	31	.....	
Unknown.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	151	11	.....	21	11	21	11	31	.....	11	21	11	11	.....	71	11	11	11	11	11	11	11	11	.....	11	.....	.....	.....	.....	.....	.....	.....
Males.....	111	11	.....	21	.....	21	.....	21	.....	.....	.....	.....	.....	61	11	.....	11	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Females.....	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown.....	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....







Total.....	122	12	13	17	11	9	13	6	13	13	18	20	19	21	67	14	8	2	6	6	4	3	7	7	7	4	5	6	8	4	8	2
Gratiot.....																																
Males ....	90	6	6	7	8	6	7	....	9	10	9	13	8	1	39	9	4	2	1	3	3	1	5	5	3	1	1	3	3	3	1	
Females .	76	6	7	10	3	3	6	6	4	3	9	7	11	1	28	5	4	....	5	3	1	....	2	2	4	3	4	3	5	1	5	1
Total.....	236	9	19	14	32	21	16	17	18	14	18	29	28	1	35	4	5	7	8	13	9	11	7	8	15	19	18	19	22	18	3	
Hillsdale.....																																
Males ....	109	3	7	5	14	13	9	8	7	9	11	9	14	15	..	17	4	1	3	4	5	5	3	8	10	9	12	9	11	7	12	2
Females .	127	6	12	9	18	8	7	9	11	9	9	14	15	..	17	4	1	3	4	5	5	5	3	8	10	9	12	9	11	7	12	2
Total.....	250	12	11	19	12	20	20	24	31	39	15	21	24	2	146	21	11	8	16	5	7	9	6	6	1	3	3	1	3	1	2	1
Houghton.....																																
Males ....	143	8	7	9	5	12	15	12	18	18	8	15	15	1	89	11	6	4	6	3	1	6	4	5	....	2	2	..	1	..	2	1
Females .	107	4	4	10	7	8	5	12	13	21	7	6	9	1	57	10	5	4	10	2	6	3	2	1	1	1	1	1	2	1	..	2
Total.....	150	12	8	12	16	14	12	8	8	20	18	11	11	..	75	12	2	4	9	6	2	4	3	7	2	4	6	3	6	2	3	..
Huron.....																																
Males ....	90	8	2	6	12	6	8	5	5	13	10	7	8	..	43	8	2	3	4	3	1	1	....	5	1	4	5	2	5	2	1	..
Females .	60	4	6	6	4	8	4	3	3	7	8	4	3	..	32	4	....	1	5	3	1	3	3	2	1	....	1	1	1	..	2	..
Total.....	249	15	12	10	31	22	23	19	17	34	27	17	22	..	75	19	12	16	15	6	11	12	8	7	8	4	10	7	18	12	2	..
Ingham.....																																
Males ....	127	7	7	8	15	9	9	8	9	15	12	10	18	..	42	8	9	4	6	3	3	6	3	3	4	3	6	5	4	13	4	1
Females .	122	8	5	2	16	13	14	11	8	19	15	7	4	..	33	11	3	12	9	3	8	6	5	4	4	1	4	2	3	5	8	1
Total.....	290	15	27	26	15	27	28	19	33	40	17	17	25	1	80	36	22	16	14	15	14	8	9	8	8	13	6	13	7	11	4	..
Ionla.....																																
Males ....	162	8	18	15	5	15	15	9	22	22	7	8	18	..	48	20	14	5	7	6	3	6	5	4	4	12	3	5	10	5	5	..
Females .	128	7	9	11	10	12	13	10	11	18	10	9	7	1	32	16	8	11	7	9	11	2	4	4	4	1	3	1	3	2	0	4
Total.....	55	3	2	4	1	16	4	3	6	4	6	4	2	..	33	2	1	1	3	....	4	1	....	2	....	1	1	..	2	..	4	..
Iosco.....																																
Males ....	33	1	2	3	....	8	4	....	4	3	5	3	....	..	21	....	1	....	2	....	4	1	....	....	....	1	..	1	..	..	2	..
Females .	22	2	....	1	1	8	....	3	2	1	1	1	2	..	12	2	....	1	1	....	....	....	2	....	2	....	1	..	1	..	2	..
Total.....	135	6	11	10	9	13	12	16	8	11	15	12	12	..	57	13	14	8	8	6	6	5	1	1	3	1	3	..	4	1	..	4
Isabella.....																																
Males ....	65	2	7	3	5	5	7	5	5	4	9	5	8	..	27	9	5	2	5	3	3	1	1	....	1	1	2	..	4	1	..	..
Females .	70	4	4	7	4	8	5	11	3	7	6	7	4	..	30	4	9	6	3	3	3	4	....	1	2	....	1	..	..	..	4	..
Total.....	356	18	25	36	27	32	23	38	32	35	30	33	..	104	20	7	16	14	12	10	16	12	16	15	11	10	26	20	23	20	4	..
Jackson.....																																
Males ....	200	11	12	18	14	14	17	12	27	16	24	16	19	..	61	11	2	10	6	9	4	6	7	8	7	5	4	18	11	14	13	4
Females .	155	7	12	18	13	13	15	11	11	16	11	14	14	..	42	9	5	6	8	3	6	10	5	8	8	6	6	8	9	9	7	..
Unknown	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....





## DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

[illegible]





## DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

169

[illegible]











## COLOR OF DECEDENTS IN MICHIGAN IN 1882.

Table XI. contains the number of deaths in Michigan in 1882, by sex and by color of decedents. The third column shows the proportion of the sexes in the different races. The excess of all colors is of males; the largest proportion of males is among the Black and Mulatto, and the least among the Indians. It is also seen by the last column that the death-rate is greatest among the Indians, and least among the white inhabitants. In 1882 over 97 per cent of all the decedents were white.

In Table XII. the color of decedents can be seen by counties.

TABLE XI.—Deaths Returned as having occurred in Michigan during the Year 1882, distinguishing the Color by Number and Proportion of each Sex; and, by Sex, the Per Cent of Decedents of each Color to Total of All Colors; the Per Cent of Inhabitants of each Color to Total of All Colors; also, the Per Cent of Decedents to Inhabitants.

COLOR.	Sex.	Population June 1, 1880.	Number of Deaths Returned.	Per Cent of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females.	Per Cent of Deaths of each Color to Total of All Colors, by Sex.	Per Cent of Inhabitants of each Color to Total of All Colors, by Sex, June 1, 1880.*	Death-rate—Per Cent of Deaths in 1882 to Population in 1880.
All colors.....	Total.....	1,632,737	16,425	.....	.....	100.00	.....	1.01
	Males.....	839,810	8,713	53.20	113.69	100.00	.....	1.01
	Females.....	772,927	7,664	46.80	.....	100.00	.....	.99
	Unknown.....	.....	48	.....	.....	100.00	.....	.....
White.....	Total.....	1,610,900	16,046	.....	.....	97.09	98.66	1.00
	Males.....	.....	8,509	53.15	113.45	97.06	.....	.....
	Females.....	.....	7,500	46.85	.....	97.86	.....	.....
	Unknown.....	.....	37	.....	.....	77.08	.....	.....
Black.....	Total.....	.....	182	.....	.....	1.11	.....	.....
	Males.....	.....	114	62.63	167.65	1.31	.....	.....
	Females.....	.....	68	37.37	.....	.89	.....	.....
Mulatto.....	Total.....	.....	37	.....	.....	.23	.....	.....
	Males.....	.....	16	43.24	76.19	.18	.....	.....
	Females.....	.....	21	56.76	.....	.27	.....	.....
Indian.....	Total.....	6,733	138	.....	.....	.84	.41	2.05
	Males.....	.....	70	50.72	102.94	.80	.....	.....
	Females.....	.....	68	49.28	.....	.89	.....	.....
Unknown.....	Total.....	.....	22	.....	.....	.13	.....	.....
	Males.....	.....	4	36.36	57.14	.04	.....	.....
	Females.....	.....	7	63.64	.....	.09	.....	.....
	Unknown.....	.....	11	.....	.....	22.92	.....	.....
Black and Mulatto.....	Total.....	15,076	219	.....	.....	1.27	.93	1.45
	Males.....	.....	130	59.36	145.07	1.40	.....	.....
	Females.....	.....	89	40.64	.....	1.16	.....	.....

\* Population represented by returns of deaths, 1882.

• Includes 23 Asiatics.

TABLE XII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Color of all Persons Returned as having Died in Michigan during the Year ending December 31, 1882.*

STATE AND COUNTIES.	ALL COLORS,—1882.				WHITE.				BLACK.			MU- LATTO.			INDIAN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
State.....	16,425	8,713	7,664	48	16,046	8,509	7,500	37	182	114	68	37	16	21	138	70	68	22	4	7	11
Alcona.....	9	4	5	..	9	4	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Allegan.....	382	186	195	1	375	185	189	1	..	..	..	1	1	..	4	..	4	2	..	2	..
Alpena.....	87	47	39	1	87	47	39	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Antrim.....	78	43	34	1	78	43	34	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Baraga.....	41	23	18	..	31	17	14	..	..	..	..	..	..	..	10	6	4	..	..	..	..
Barry.....	181	98	83	..	180	97	83	..	1	1	..	..	..	..	..	..	..	..	..	..	..
Bay.....	503	278	225	..	491	267	224	..	3	3	..	..	..	..	9	8	1	..	..	..	..
Benzie.....	54	37	17	..	51	34	17	..	3	3	..	..	..	..	..	..	..	..	..	..	..
Berrien.....	333	182	145	6	323	177	140	6	6	4	2	2	1	1	2	..	2	..	..	..	..
Branch.....	207	106	101	..	206	106	100	..	..	..	..	..	..	..	..	..	1	..	1	..	..
Calhoun.....	264	128	135	1	256	123	132	1	5	5	..	2	2	..	..	..	1	..	1	..	..
Cass.....	163	87	76	..	139	79	60	..	10	3	7	7	2	5	5	2	3	2	1	1	..
Charlevoix...	94	42	51	1	93	41	51	1	..	..	..	..	..	..	1	1	..	..	..	..	..
Cheboygan...	78	42	36	..	73	39	34	..	2	2	..	..	..	..	3	1	2	..	..	..	..
Chippewa.....	80	47	33	..	73	41	32	..	..	..	..	..	..	..	7	6	1	..	..	..	..
Clare.....	41	20	20	1	41	20	20	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Clinton.....	191	91	99	1	190	91	99	..	..	..	..	..	..	..	..	..	1	..	1	..	..
Crawford.....	15	11	4	..	15	11	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delta.....	51	26	25	..	51	26	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eaton.....	202	89	112	1	201	89	111	1	1	..	1	..	..	..	..	..	..	..	..	..	..
Emmet.....	95	41	54	..	50	21	29	..	..	..	..	..	..	..	45	20	25	..	..	..	..
Genesee.....	341	175	166	..	333	172	161	..	7	2	5	..	..	..	1	1	..	..	..	..	..
Gladwin.....	6	5	1	..	5	4	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..
G'd Traverse..	44	21	23	..	44	21	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gratiot.....	166	90	76	..	166	90	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hillsdale.....	236	109	127	..	232	105	127	..	3	3	..	1	1	..	..	..	..	..	..	..	..
Houghton.....	250	143	107	..	250	143	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Huron.....	150	90	60	..	150	90	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ingham.....	249	127	122	..	245	125	120	..	4	2	2	..	..	..	..	..	..	..	..	..	..
Ionia.....	290	162	128	..	290	162	128	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Iosco.....	55	33	22	..	55	33	22	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Isabella.....	135	65	70	..	129	63	66	..	..	..	..	..	..	..	6	2	4	..	..	..	..



TABLE XII.—CONTINUED.—*Deaths by Counties, by Color, and by Sex.*

COUNTIES.	ALL COLORS,—1882.				WHITE.				BLACK.			MU-LATTO.		INDIAN.		UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Jackson.....	356	200	155	1	345	195	150	..	5	3	2	5	2	3	..	..	1	..
Kalamazoo....	338	175	162	1	322	167	154	1	14	7	7	1	..	1	1	1	..	..
Kalkaska.....	46	25	21	..	46	25	21	..	..	..	..	..	..	..	..	..	..	..
Kent.....	809	434	374	1	796	427	369	..	11	6	5	..	..	..	..	2	1	1
Keweenaw.....	101	62	39	..	101	62	39	..	..	..	..	..	..	..	..	..	..	..
Lake.....	37	18	19	..	37	18	19	..	..	..	..	..	..	..	..	..	..	..
Lapeer.....	245	134	110	1	243	134	109	..	1	..	1	..	..	..	..	1	..	1
Leelanaw.....	39	26	13	..	39	26	13	..	..	..	..	..	..	..	..	..	..	..
Lenawee.....	401	203	198	..	392	197	195	..	9	6	3	..	..	..	..	..	..	..
Livingston....	178	94	83	1	177	93	83	1	1	1	..	..	..	..	..	..	..	..
Mackinac.....	18	9	9	..	13	8	5	..	..	..	..	..	..	5	1	4	..	..
Macomb.....	267	122	145	..	266	121	145	..	..	..	..	1	1	..	..	..	..	..
Manistee.....	219	123	95	1	218	123	94	1	..	..	..	..	..	1	..	1	..	..
Manitou.....	11	8	3	..	11	8	3	..	..	..	..	..	..	..	..	..	..	..
Marquette....	419	239	177	3	418	238	177	3	1	1	..	..	..	..	..	..	..	..
Mason.....	80	38	41	1	76	35	41	..	..	..	..	..	..	3	3	1	..	1
Mecosta.....	193	119	74	..	192	118	74	..	1	1	..	..	..	..	..	..	..	..
Menominee....	93	45	47	1	74	36	37	1	..	..	..	..	..	19	9	10	..	..
Midland.....	87	41	45	1	87	41	45	1	..	..	..	..	..	..	..	..	..	..
Missaukee....	32	18	11	3	32	18	11	3	..	..	..	..	..	..	..	..	..	..
Monroe.....	302	152	150	..	301	151	150	..	..	..	..	1	1	..	..	..	..	..
Montcalm.....	278	154	122	2	274	152	120	2	..	..	..	2	1	1	..	..	2	1
Montmorency..	2	2	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..
Muskegon....	339	182	156	1	339	182	156	1	..	..	..	..	..	..	..	..	..	..
Newaygo.....	131	65	66	..	131	65	66	..	..	..	..	..	..	..	..	..	..	..
Oakland.....	341	174	166	1	338	174	163	1	1	..	1	2	..	2	..	..	..	..
Oceana.....	137	65	71	1	132	62	69	1	1	1	..	..	..	4	2	2	..	..
Ogemaw.....	32	17	15	..	32	17	15	..	..	..	..	..	..	..	..	..	..	..
Ontonagon....	36	21	15	..	35	20	15	..	..	..	..	..	..	1	1	..	..	..
Osceola.....	107	53	54	..	107	53	54	..	..	..	..	..	..	..	..	..	..	..
Oscoda.....	7	3	4	..	6	2	4	..	1	1	..	..	..	..	..	..	..	..
Otsego.....	17	13	4	..	17	13	4	..	..	..	..	..	..	..	..	..	..	..
Ottawa.....	367	205	158	4	359	201	158	..	3	3	..	..	..	1	1	4	..	4
Presque Isle..	38	20	18	..	37	20	17	..	..	..	..	..	..	..	..	1	..	1
Roscommon....	9	6	3	..	9	6	3	..	..	..	..	..	..	..	..	..	..	..
Saginaw.....	848	477	366	5	831	470	358	3	5	1	4	1	1	..	9	5	4	2

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

COUNTIES.	ALL COLORS.—1882.				WHITE.				BLACK.			MU-LATTO.			INDIAN.			UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Sanilac.....	193	113	80	--	193	113	80	--	--	--	--	--	--	--	--	--	--	--	--	--
Schoolcraft...	39	19	20	--	39	19	20	--	--	--	--	--	--	--	--	--	--	--	--	--
Shlawassee...	160	83	76	1	160	83	76	1	--	--	--	--	--	--	--	--	--	--	--	--
St. Clair.....	405	213	191	1	405	213	191	1	--	--	--	--	--	--	--	--	--	--	--	--
St. Joseph.....	252	126	126	--	247	123	124	--	5	3	2	--	--	--	--	--	--	--	--	--
Tuscola.....	252	132	120	--	251	132	119	--	--	--	--	--	--	--	1	--	1	--	--	--
Van Buren.....	204	102	102	--	202	100	102	--	2	2	--	--	--	--	--	--	--	--	--	--
Washtenaw ..	351	195	155	1	337	184	152	1	12	9	3	1	1	--	--	--	--	1	1	--
Wayne.....	2,454	1,294	1,158	2	2,331	1,250	1,129	2	63	40	23	10	4	6	--	--	--	--	--	--
Wexford.....	84	46	38	--	84	46	38	--	--	--	--	--	--	--	--	--	--	--	--	--

## NATIVITY OF DECEDENTS IN MICHIGAN.

An examination of Exhibit 6 will show the nativity of decedents in Michigan for each of the years 1874-1882, and the average for ten years ending with 1881. The proportional average of native-born decedents for ten years is about 80 per cent, the average of foreign-born decedents about 17 per cent, and the average of unknown nativity for the same time is about 3 per cent.

The term "foreign-born" includes only those persons born in other countries, and not those born in the United States, although of direct foreign descent. It is scarcely necessary to repeat the observation that the native-born decedents contain a large element of strictly foreign people, and also that a very large proportion of the deaths of infants and children is included among the native-born.

**EXHIBIT 6.**—*Nativity of Persons Returned as having Died in Michigan during each of the Years 1874-1882, inclusive, showing the Number and the Per Cent which the Native and the Foreign-born Decedents are of the Total of All Nativities, and the Average Number and Per Cent for the Ten Years ending with 1881.*

NATIVITY OF DECEDENTS.	DEATHS, 1874.		DEATHS, 1875.		DEATHS, 1876.		DEATHS, 1877.		DEATHS, 1878.		DEATHS, 1879.		DEATHS, 1880.		DEATHS, 1881.		DEATHS, 1882.		AV. FOR TEN YEARS END- ING WITH 1881.	
	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
All nativities....	12,500	100.00	11,900	100.00	12,576	100.00	12,919	100.00	12,768	100.00	14,407	100.00	16,102	100.00	19,238	100.00	16,425	100.00	14,013	100.00
Native-born.....	9,037	79.50	9,573	79.84	10,147	80.69	10,305	79.77	10,183	79.77	11,403	79.79	12,572	78.08	15,402	80.06	12,848	78.22	11,303	79.94
Foreign-born....	2,128	17.02	2,106	17.57	2,078	16.52	2,251	17.42	2,237	17.52	2,458	17.06	2,962	18.40	3,407	17.71	3,144	19.14	2,411	17.21
Unknown.....	435	3.48	311	2.59	351	2.79	353	2.81	346	2.71	454	3.15	568	3.52	429	2.23	433	2.64	309	2.85



TABLE XIII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of all Persons Returned as having Died in Michigan during the Year ending December 31, 1882.*

STATE AND COUNTIES.	ALL NATIVITIES, 1882.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
State.....	16,425	8,713	7,664	48	12,848	6,652	6,152	44	3,144	1,823	1321	433	238	191	4
Alcona.....	9	4	5	---	6	2	4	---	3	2	1	---	---	---	---
Allegan.....	382	186	195	1	323	158	164	1	50	24	26	9	4	5	---
Alpena.....	87	47	39	1	79	42	36	1	7	4	3	1	1	---	---
Antrim.....	78	43	34	1	62	35	26	1	15	8	7	1	---	1	---
Baraga.....	41	23	18	---	34	19	15	---	7	4	3	---	---	---	---
Barry.....	181	98	83	---	165	88	77	---	15	9	6	1	1	---	---
Bay.....	503	278	225	---	387	200	178	---	105	58	47	11	11	---	---
Benzie.....	54	37	17	---	44	32	12	---	8	3	5	2	2	---	---
Berrien.....	333	182	145	6	269	152	111	6	29	15	14	35	15	20	---
Branch.....	207	106	101	---	185	93	92	---	16	8	8	6	5	1	---
Calhoun.....	264	128	135	1	225	108	116	1	26	12	14	13	8	5	---
Cass.....	163	87	76	---	147	79	68	---	6	3	3	10	5	5	---
Charlevoix..	94	42	51	1	80	36	43	1	13	6	7	1	---	1	---
Cheboygan..	78	42	36	---	64	32	32	---	13	9	4	1	1	---	---
Chippewa...	80	47	33	---	56	33	23	---	19	13	6	5	1	4	---
Clare.....	41	20	20	1	35	15	19	1	3	2	1	3	3	---	---
Clinton.....	191	91	99	1	165	75	89	1	22	16	6	4	---	4	---
Crawford...	15	11	4	---	13	10	3	---	1	1	---	1	---	1	---
Delta.....	51	25	25	---	35	17	18	---	10	4	6	6	5	1	---
Eaton.....	202	89	112	1	182	80	101	1	10	4	6	10	5	5	---
Emmet.....	95	41	54	---	92	40	52	---	3	1	2	---	---	---	---
Genesee.....	341	175	166	---	300	152	148	---	26	19	17	5	4	1	---
Gladwin....	6	5	1	---	5	5	---	---	1	---	1	---	---	---	---
G'dTraverse	44	21	23	---	32	17	15	---	12	4	8	---	---	---	---
Gratiot.....	166	90	76	---	142	81	61	---	22	8	14	2	1	1	---
Hilledale...	236	109	127	---	211	97	114	---	14	8	6	11	4	7	---
Houghton...	250	143	107	---	183	107	76	---	67	36	31	---	---	---	---
Huron.....	150	90	60	---	165	58	47	---	44	21	23	1	1	---	---
Ingham.....	249	127	122	---	224	112	110	---	22	13	9	3	2	1	---
Ionia.....	290	162	128	---	---	---	---	---	---	16	9	5	2	3	---
Iosco.....	53	---	---	---	---	---	---	---	---	7	2	2	2	---	---
Isabella.....	138	---	---	---	---	---	---	---	---	1	7	4	---	4	---
Jackson.....	---	---	---	---	---	---	---	---	---	---	20	2	1	1	---

TABLE XIII.—CONTINUED.—*Deaths by Counties, Nativity, and Sex.*

COUNTIES.	ALL NATIVITIES, 1882.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Kalamazoo..	338	175	162	1	279	145	133	1	57	29	28	2	1	1	---
Kalkaska....	46	25	21	---	40	21	19	---	4	3	1	2	1	1	---
Kent.....	809	434	374	1	625	333	292	---	174	99	75	10	2	7	1
Keweenaw..	101	62	39	---	61	33	28	---	39	23	11	1	1	---	---
Lake.....	37	18	19	---	31	16	15	---	5	2	3	1	---	1	---
Lapeer.....	245	134	110	1	199	110	88	1	44	23	21	2	1	1	---
Leelanaw...	39	26	13	---	30	21	9	---	9	5	4	---	---	---	---
Lenawee...	401	203	198	---	339	166	173	---	50	30	20	12	7	5	---
Livingston..	178	94	83	1	149	77	71	1	27	16	11	2	1	1	---
Mackinac...	18	9	9	---	15	7	8	---	3	2	1	---	---	---	---
Macomb.....	267	123	145	---	201	90	111	---	66	32	34	---	---	---	---
Manistee...	219	123	95	1	165	89	75	1	50	31	19	4	3	1	---
Manitou....	11	8	3	---	8	5	3	---	3	3	---	---	---	---	---
Marquette...	419	239	177	3	255	125	127	3	151	106	45	13	8	5	---
Mason.....	80	38	41	1	67	27	39	1	11	10	1	2	1	1	---
Meosco.....	193	119	74	---	162	97	65	---	30	21	9	1	1	---	---
Menominee...	93	45	47	1	56	22	33	1	32	20	12	5	3	2	---
Midland....	87	41	45	1	68	29	39	---	8	5	3	11	7	3	1
Missaukee...	32	18	11	3	22	10	9	3	8	7	1	2	1	1	---
Monroe.....	302	152	150	---	233	115	118	---	59	31	28	10	6	4	---
Montcalm..	278	154	122	2	249	138	109	2	23	12	11	6	4	2	---
M'tmorency	2	2	---	---	2	2	---	---	---	---	---	---	---	---	---
Muskegon...	339	182	156	1	261	141	119	1	67	34	33	11	7	4	---
Newaygo...	121	65	66	---	107	54	53	---	23	10	13	1	1	---	---
Oakland....	341	174	166	1	259	130	128	1	70	40	30	12	4	8	---
Oceana.....	137	65	71	1	111	51	59	1	18	11	7	8	3	5	---
Ogemaw....	32	17	15	---	23	9	14	---	8	7	1	1	1	---	---
Ontonagon...	36	21	15	---	19	10	9	---	15	9	6	2	2	---	---
Oshtemo...	107	53	54	---	94	48	46	---	13	5	8	---	---	---	---
Oshtemo...	7	3	4	---	7	3	4	---	---	---	---	---	---	---	---
Otsego.....	17	13	4	---	11	8	3	---	2	2	---	4	3	1	---
Ottawa.....	267	205	158	4	269	145	120	4	90	55	35	8	5	3	---
Shiawassee...	38	20	18	---	22	10	12	---	16	10	6	---	---	---	---
St. Joseph...	9	6	3	---	5	4	1	---	4	2	2	---	---	---	---
Washtenaw...	648	477	366	5	608	340	263	3	208	119	89	34	18	14	2
Ypsilanti...	78	113	90	---	136	82	54	---	57	31	26	---	---	---	---



TABLE XIII.—CONTINUED.—*Deaths by Counties, Nativity, and Sex.*

COUNTIES.	ALL NATIVITIES, 1882.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Schoolcraft.	39	19	20	—	32	15	17	—	7	4	3	—	—	—	—
Shiawassee..	160	83	76	1	132	65	66	1	22	15	7	6	3	3	—
St. Clair.....	405	213	191	1	294	152	141	1	107	59	48	4	2	2	—
St. Joseph....	252	126	126	—	218	104	114	—	24	17	7	10	5	5	—
Tuscola.....	252	132	120	—	191	102	89	—	58	28	30	3	2	1	—
Van Buren..	204	102	102	—	180	86	94	—	19	13	6	5	3	2	—
Washtenaw..	351	193	153	1	278	149	128	1	69	45	24	4	1	3	—
Wayne.....	2,454	1,294	1,158	2	1,709	864	843	2	671	385	286	74	45	29	—
Wexford.....	84	46	38	—	65	35	31	—	13	10	3	5	1	4	—

## CAUSES OF DEATH, 1882.

Although exceptional phenomena are of value to the statistician as a means for general comparisons, he principally depends for his most important generalizations upon those phenomena that are of greater prominence as regards their frequency and effects. For this reason, in studying the causes of death, those which, in a given period, occasion the greatest loss of human life in a community or state, are the first he is induced seriously to consider. We are accustomed to look upon cholera as a disease especially peculiar to oriental countries; and the nearer we approach the southern boundaries of our own domain, we are lead to anticipate the ravages of yellow fever as most seriously to be apprehended.

While the principal causes of death in Michigan are not absolutely peculiar to its own special area, there are some causes of death, more prominent than others that demand our most thoughtful consideration. These principal causes have been carefully classified and studied for a number of years.

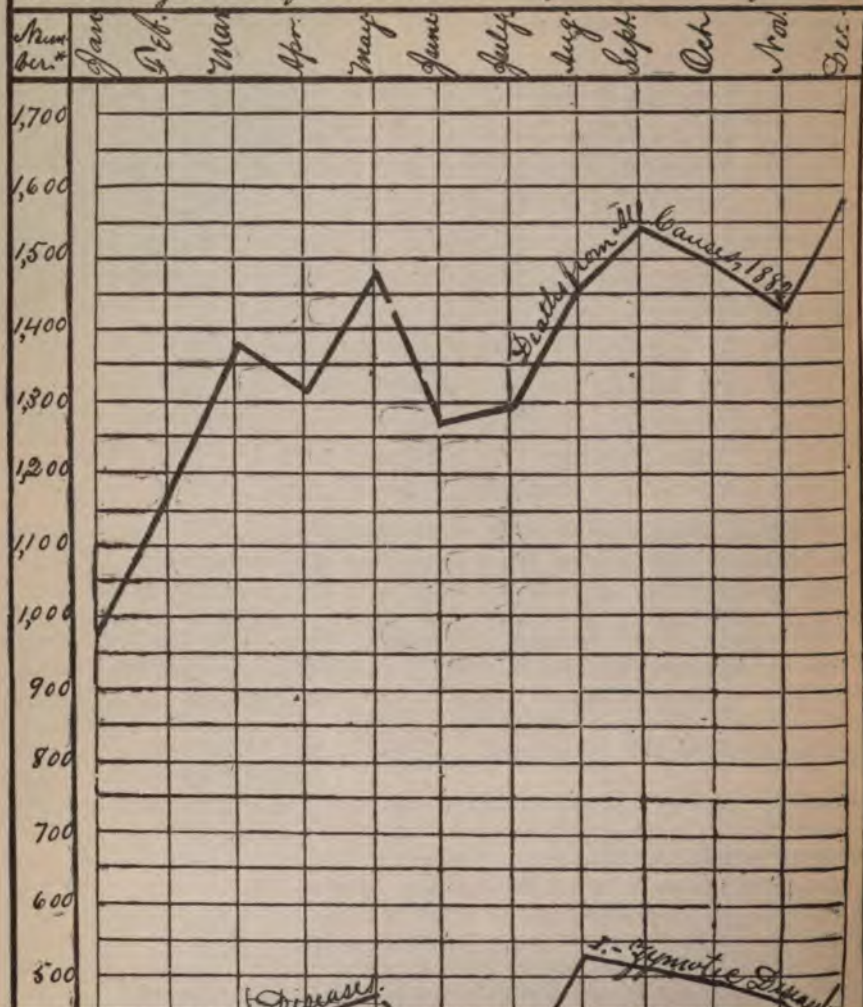
This department of registration is one of direct importance to the people of Michigan, as by it we are enabled to judge of the condition of the public health. If epidemics have visited us, here is the certain evidence of their extent and severity. Its indications are positive. It clearly points out what diseases proved fatal, in what locality they prevailed the most, at what ages, at what seasons, and what were the surrounding circumstances. All these facts supply an array of evidence from which reliable conclusions can be deduced for the benefit of the public, and it is a matter of gratification to know that the great value of these statistics has long been recognized by all intelligent people.

The same classification of causes of deaths was used in 1882, as heretofore in this State, and an examination of Table XIV. will show the number and proportion of deaths from each class during the years 1878-1882, and the average for ten years ending with 1881. Although scarlatina and small-pox, in 1882, were more prevalent than usual, there was a great decrease in the



# Diagram No. 2.

Deaths Returned as having Occurred in Michigan  
in 1882, by months, from all causes and from each class of causes.



mortality from diphtheria, which in former years was so destructive to life. The result is, that the zymotic class of diseases shows a lower rate of mortality than for any year since 1878, and has fallen off 6.58 per cent from the preceding year. It is still, however, .33 per cent above the average for ten years.

The proportion of deaths from constitutional diseases was slightly increased, though still less than the average for ten years. Consumption and cancer are, by far, the two most prominent and fatal diseases of this class.

The percentage of local diseases, those affecting the brain and nervous system, is greater than for any year since 1876 and greater than the average for ten years.

The mortality-rate from developmental diseases, those from old age and of infants, was also greater than usual, and is nearly two per cent greater than the average, while the rate of deaths by violence shows a marked decline when compared with previous years.

Fifty-three males and 5 females lost their lives by railroad accidents. Forty-four males and 18 females committed suicide. One hundred and twenty-six males and 13 females were reported drowned. Eleven males and 11 females were reported poisoned. Fifty-seven persons were burned or scalded to death. Twelve from exposure; 13 from suffocation and strangulation; one female died from starvation, and 11 persons were murdered.

**EXHIBIT 7.—By Months, the Number of Deaths Returned as having Occurred in Michigan from All Causes and from each Class of Causes during the Year 1882.**

CAUSES OF DEATH,— CLASSES.	YEAR, 1882.	MONTHS OF DEATH 1882.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All Causes.....	16,425	978	1171	1372	1311	1480	1364	1284	1453	1545	1498	1421	1570	78
I.—Zymotic Diseases.....	4,718	313	321	355	304	347	325	354	529	507	494	457	395	17
II.—Constitutional Diseases...	2,612	137	196	231	213	264	222	216	213	244	232	213	217	14
III.—Local Diseases.....	4,691	295	359	432	437	472	367	354	321	385	382	387	488	12
IV.—Developmental Diseases..	2,067	111	143	178	164	189	148	157	180	172	174	177	260	14
V.—Violent Deaths.....	778	47	43	39	57	73	81	83	64	65	86	78	57	5
Unknown and Unclassified. ...	1,559	75	109	137	136	135	121	120	146	172	130	109	153	16

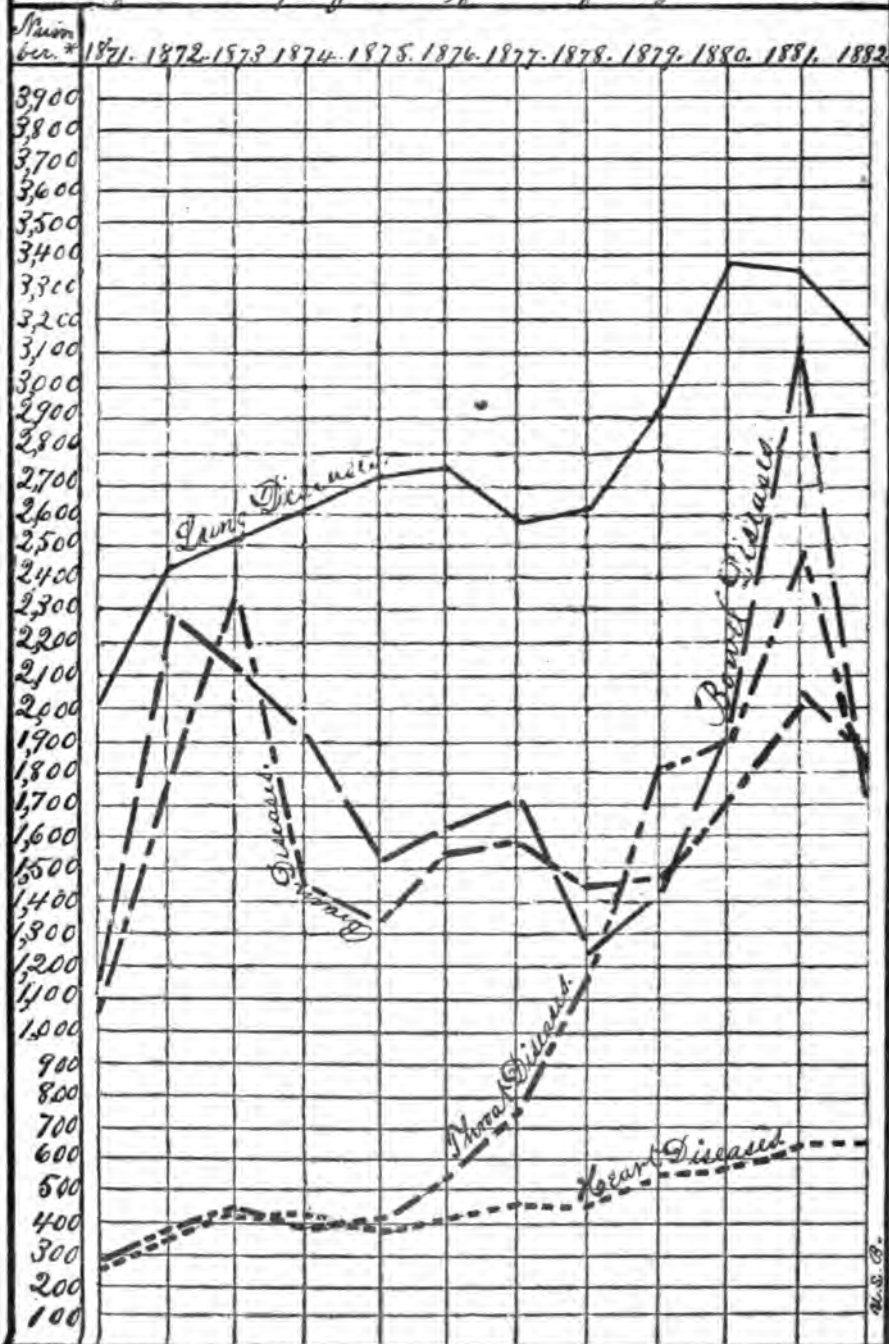






# Diagram No. 3.

Deaths Returned as having Occurred in Michigan from each of Five Groups of Causes, for each of the years 1871-1882.



\* Scale = 600 to the inch.

## DEATHS IN 1882, GROUPED BY PART OF BODY DISEASED.

The number and proportion of deaths from diseases of particular organs of the body may be seen in Exhibit 8. It shows the order of fatality of seven groups and their relative proportion to each other. Lung diseases, as usual, maintain the first place with a percentage of 19.01, which is 1.51 greater than for the preceding year. The average annual percentage of lung diseases, for the ten years 1873-1882, is 20.15. Diseases of the bowels, which held second place in 1881, dropped to the fourth in the order in 1882, exchanging places with diseases of the brain. With the other prominent causes of death the order, in regard to largest number, varies more or less from year to year. In 1882, 58.35 per cent of all the deaths returned as having occurred in Michigan were caused by the seven groups. The average for the four years, 1879-1882, is 60.05.

EXHIBIT 8.—*Order of Succession of Seven Groups of Causes of Deaths Returned as Having occurred in Michigan for each of the Years 1879 to 1882, inclusive; Number of Deaths from each Group of Causes, and Per Cent of Deaths from each Group of Causes to Deaths from All Causes.*

ORDER.	1875.			1876.			1877.			1878.		
	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.
....	All cau's.	11,990	100.00	All cau's.	12,576	100.00	All cau's.	12,219	100.00	All cau's.	12,766	100.00
1	Lungs....	2,720	22.69	Lungs....	2,753	21.89	Lungs ...	2,584	20.00	Lungs ...	2,609	20.44
2	Bowels...	1,521	12.69	Bowels...	1,633	12.98	Bowels ..	1,702	13.17	Brain ....	1,440	11.28
3	Brain.....	1,338	11.16	Brain ....	1,549	12.31	Brain ....	1,592	12.32	Bowels ..	1,247	9.77
4	Throat...	406	3.39	Throat...	541	4.30	Throat...	781	6.05	Throat...	1,160	9.09
5	Heart.....	391	3.26	Heart.....	405	3.22	Heart.....	460	3.56	Heart.....	452	3.54
6							Liver ....	126	.98	Liver ....	143	1.12
15	5 groups.	6,376	53.19	5 groups.	6,881	54.72	6 groups.	7,245	56.08	6 groups.	7,051	55.23
ORDER.	1879.			1880.			1881.			1882.		
	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.
....	All cau's.	14,407	100.00	All cau's	16,102	100.00	All cau's.	19,238	100.00	All cau's.	16,425	100.00
1	Lungs ...	2,945	20.44	Lungs....	33.87	21.03	Lungs ...	3,366	17.50	Lungs ...	3,123	19.61
2	Throat...	1,803	12.51	Bowels ..	1,962	12.18	Bowels...	3,102	16.12	Brain.....	1,856	11.30
3	Brain ....	1,466	10.18	Throat...	1,899	11.79	Throat...	2,493	12.96	Throat...	1,814	11.04
4	Bowels ..	1,424	9.88	Brain ...	1,709	10.61	Brain ....	2,043	10.62	Bowels ..	1,724	10.50
5	Heart.....	549	3.81	Heart.....	570	3.54	Heart.....	646	3.36	Heart.....	649	3.95
6	Liver ....	121	.84	Kidneys..	154	.96	Kidneys..	241	1.25	Kidneys..	273	1.66
7	Kidneys..	113	.78	Liver ....	119	.74	Liver ....	143	.74	Liver ....	145	.88
17	7 groups.	8,421	58.45	7 groups.	9,800	60.86	7 groups.	12,034	62.55	7 groups.	9,584	58.35

EXHIBIT J.—*Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of Death, with a list of Counties included in each Division.*

Upper Peninsula.	North-western.	Northern.	North-eastern.	Western.	Northern-Central.	Bay and Eastern.	Central.	South-western.	Southern Central.	South-eastern.
Alcona.	Benzie.	Antrim.	Alcona.	Kent.	Clare.	Bay.	Barry.	Allegan.	Branch.	Macomb.
Alpena.	G'd Traverse.	Charlevoix.	Alpena.	Lake.	Gladwin.	Huron.	Clinton.	Berrien.	Calhoun.	Monroe.
Iosco. <sup>g</sup>	Leelanaw.	Cheboygan.	Iosco. <sup>g</sup>	Mason. <sup>h</sup>	Isabella.	Lapeer.	Eaton.	Cass.	Hillsdale.	Oakland.
Montmorency.	Manistee.	Crawford.	Montmorency.	Muskegon.	Macosta.	Saginaw.	Genesee.	Van Buren.	Jackson.	Wayne.
Ogemaw.	Manitou.	Emmet.	Ogemaw.	Newaygo.	Midland.	Sanilac.	Gratiot.		Kalamazoo.	
Oscoda.	Missaukee.	Kalkaska.	Oscoda.	Oceana.	Rosecommon.	St. Clair.	Ingham.		Lenawee.	
Presque Isle.	Wexford.	Osago.	Presque Isle.	Osceola.		Tuscola.	Ionia.		St. Joseph.	
				Ottawa.			Livingston.		Washtenaw.	
							Montcalm.			
							Shiawassee.			

<sup>g</sup> deaths from the following townships:

<sup>h</sup> Superior. <sup>b</sup> Sack Bay. <sup>c</sup> All townships. <sup>d</sup> Brevort, Garfield, Hendricks, and Holmes. <sup>e</sup> Cedarville and Ingamston. <sup>f</sup> Munising.

<sup>a</sup> Branch and Eden.



## DEATHS, 1882, BY CLASSES OF CAUSES, BY DIVISIONS OF THE STATE.

Table XV. is intended to show the comparative healthfulness of the eleven geographical divisions of the State. The counties included in each division may be seen by reference to Exhibit J. For many reasons they furnish a more useful basis of comparison than the division by counties, and in many particulars these sections differ from each other, as in density of population, elevation of land, and influence of climate.

In viewing the mortality of different parts of the State, it is seen that the death-rate has diminished since last year in each division except the Upper Peninsular, Northern, and South-eastern, and, as there has been undoubtedly an increase in the number of inhabitants in each division, it would be still farther diminished if we could know the actual population for the year, but it is necessary to use the census of 1880 as a basis for calculations.

In the State, the largest proportion of deaths was caused by zymotic diseases, and the smallest from violent deaths. In the first six divisions, as they appear in Table XV., and the Southeastern division, there was also the largest proportion of deaths from zymotic causes, while in the remaining divisions the largest proportion of mortality was from local diseases. The greatest per cent of deaths to population occurred in the Northern division, and the smallest in the Southern Central.

The particular diseases included in each of these classes, and the counties in which they occurred, may be seen in Table XVI.

TABLE XV.—*Exhibiting for the State, and for each of the Eleven Geographical Divisions of the State, the Number of Deaths, the Per Cent of Deaths in 1882 to Population in 1880, and the Per Cent of Deaths for each Division to Total Deaths for the State during the Year 1882; also, the Per Cent of Deaths from each Class of Causes to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.	Popula- tion June 1, 1880, Repre- sented by Deaths in 1882.	DEATHS REPORTED, 1882.		Per Ct. of All Deaths in 1882 to Pop- ulation in 1880.	PER CENT OF DEATHS FROM EACH CLASS OF CAUSES TO DEATHS FROM ALL CAUSES, BY GEOGRAPHICAL DIVISIONS.					
		Num- ber.	Per Ct. of Total.		Class I. Zymotic Diseases.	Class II. Consti- tutional Diseases.	Class III. Local Diseases.	Class IV. Develop- mental Diseases.	Class V. Violent Deaths.	Unk. and Un- classi- fied.
STATE.....	1,632,737	16,425	100.00	1.01	28.73	15.90	28.56	12.58	4.74	9.49
Upper Peninsular.	82,220	1,128	6.87	1.37	33.07	9.04	21.81	14.01	8.33	13.74
North-western.....	40,342	483	2.94	1.20	33.33	9.11	25.05	12.22	7.87	12.42
Northern.....	29,585	423	2.58	1.43	34.52	9.22	21.90	8.98	4.25	21.04
North-eastern.....	24,061	230	1.40	.96	27.39	6.96	22.61	13.48	7.82	21.74
Western.....	182,438	2,007	12.22	1.10	34.03	14.35	26.41	11.21	4.53	9.47
Northern-Central..	39,654	471	2.87	1.19	40.55	13.16	22.72	6.80	3.82	12.95
Bay and Eastern...	245,679	2,596	15.80	1.06	27.54	13.98	29.40	15.06	5.12	8.90
Central.....	295,804	2,236	13.61	.76	27.77	17.44	31.13	10.73	4.79	8.14
South-western.....	127,416	1,082	6.59	.85	23.29	20.24	30.22	12.39	4.99	8.87
Southern-Central...	292,306	2,405	14.64	.82	20.50	20.46	35.34	12.22	4.33	7.15
South-eastern.....	273,232	3,364	20.48	1.23	30.32	17.75	26.93	13.82	3.06	8.12





III.—1. Diseases of Nervous System.....	1,750	1	351	61	101	5	121	68	2	37	27	38	14	7	6	1	1	20	1	4	15	9	39	4
2. Diseases of Organs of Circulation.....	642	.....	13	1	2	1	5	9	4	15	17	28	11	4	1	2	.....	13	2	1	17	3	11	2
3. Diseases of Respiratory Organs.....	1,207	1	24	8	2	2	17	34	2	31	20	16	16	6	2	.....	2	8	.....	1	14	7	34	1
4. Diseases of Digestive Organs :.....	715	.....	11	5	1	1	6	26	3	19	11	8	9	7	3	3	1	9	1	3	16	5	26	.....
5. Diseases of Urinary Organs ....	277	.....	4	2	2	.....	7	2	.....	9	5	8	3	.....	.....	.....	1	7	.....	1	6	1	5	1
6. Diseases of Generative Organs.....	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	
7. Diseases of Organs of Locomotion ..	8	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
8. Diseases of Integumentary System.....	75	.....	2	.....	.....	.....	1	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	3	.....
IV.—1. Developmental Diseases of Child'n.	991	.....	20	6	5	.....	8	30	6	19	9	8	8	5	2	6	7	6	4	3	8	4	12	.....
2. Developmental Dis. of Women ....	220	.....	4	1	.....	.....	5	4	2	5	1	3	2	2	1	1	.....	4	.....	1	1	1	4	1
3. Developmental Dis. of Old People.....	647	.....	18	3	1	.....	2	15	1	18	6	15	10	2	2	4	1	5	.....	1	12	3	10	2
4. Diseases of Nutrition.....	209	.....	2	.....	.....	1	3	31	.....	4	2	1	3	1	.....	.....	.....	.....	.....	.....	1	1	3	1
V.—1. Accident or Negligence.....	436	1	13	4	1	2	.....	17	.....	10	5	9	4	2	6	3	1	6	2	2	4	1	11	1
2. Rattle.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
3. Homicide.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
4. Suicide.....	62	.....	1	.....	.....	.....	.....	1	1	.....	5	1	1	.....	2	.....	.....	1	.....	2	2	.....	3	.....
5. Execution.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
6. Violent deaths.....	268	.....	8	1	1	.....	3	5	3	4	2	1	1	.....	.....	1	1	4	.....	.....	4	1	3	.....
CLASS I.—ZYMOTIC.....	4,718	4	103	24	38	16	59	146	21	62	43	51	34	31	28	36	16	58	3	20	36	13	94	2
I.—ORDER 1. Miasmatic.....	4,679	4	103	24	38	16	59	146	21	64	43	50	34	31	28	36	16	57	3	20	36	12	93	2
1. Small-pox.....	102	.....	1	.....	2	.....	.....	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....
2. Measles.....	150	.....	1	.....	6	3	1	1	9	2	3	2	7	.....	.....	.....	.....	.....	.....	3	.....	3	1	1
3. Scarlatina.....	592	.....	29	.....	7	.....	4	21	12	2	8	5	4	.....	3	.....	.....	1	.....	1	4	.....	4	.....
4. Diphtheria.....	1,416	1	27	6	7	7	28	24	1	8	3	12	5	13	9	11	13	41	.....	7	4	6	31	4
5. Quinsy.....	18	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	
6. Croup.....	349	.....	1	14	.....	3	5	25	1	2	2	5	2	.....	5	3	1	3	.....	1	2	.....	4	2



[illegible]

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH, 1882.	COUNTIES, 1882.																								
	STATE.	Alcona.	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gr. Travers.
8. Intussusception.....	1																								
9. Stricture of Intestines.....	9						1										1								
10. Fistula.....																									
11. Stomach Diseases.....	102					1	4	1	2	1	2	1	2	1		1		1					2		
12. Pancreas Diseases.....																									
13. Hepatitis.....	6					1																			
14. { Biliary Calculus.....																									
{ Jaundice.....	28	1					1			2	2	1									1		1		
15. Liver Disease.....	111	3	1			1	4	1	2	1	2	1				1					1		2		
16. Spleen Disease.....	5																								
17. Bowel Diseases, etc.....	60	3	2				2		2	2	2	1						2			1	1	2		
18. Mouth Disease.....																									
III.—ORDER & Urinary Organs.....	277	4	2	2			1	2	2	2	2	2	2				1	1		1	1	1	2		1
1. Nephritis.....	7	1																							
2. Ischuria.....																									
3. Bright's Disease of Kidneys.....	138		1			5			4	2	2		1				1	4			5	1	2		
4. Diabetis.....	52					1	1	1	4	2	2	1						2			1	1	1		1
5. Calculus (Gravel, etc.).....	6			1								1													
6. Oystitis.....	7					1																			
7. Kidney Disease.....	67	3	1	1							1	5	1								1				



[illegible]





TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH, 1882.		COUNTIES, 1882.																										
		Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionla.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Meosota.	Menominee.	Midland.	
All Causes.....		166	236	250	150	249	260	55	135	356	338	46	869	101	37	245	39	401	178	18	267	219	11	419	80	193	43	87
Specified Causes .....		153	226	214	119	227	270	46	113	329	319	41	764	100	30	225	33	370	167	16	249	197	9	364	74	177	71	76
Causes not Specified .....		13	10	36	31	22	20	9	22	27	19	5	45	1	7	20	6	31	11	2	18	22	2	55	6	16	22	11
CLASSES.																												
I.—Zymotic Diseases.....		48	41	68	39	73	104	15	49	87	76	28	304	25	15	56	8	76	37	5	54	80	3	130	34	104	39	16
II.—Constitutional Diseases..		31	61	24	12	47	44	3	21	55	61	2	147	12	2	34	7	91	28	1	69	14	2	34	9	16	5	18
III.—Local Diseases.....		52	77	67	32	68	75	13	29	136	115	6	215	34	8	90	8	141	66	3	77	55	1	91	13	45	7	24
IV.—Developmental Diseases.....		16	35	33	22	31	26	8	8	35	36	3	67	22	2	33	6	40	30	5	38	27	3	60	7	7	13	8
V.—Violent Deaths.....		5	11	19	9	8	19	7	6	16	15	2	29	7	3	12	3	13	6	2	8	21	47	5	5	5	7	4
Unclassified.....		1	1	3	5	.....	2	.....	.....	16	.....	2	.....	.....	.....	.....	1	.....	.....	.....	3	.....	.....	2	1	.....	.....	6
ORDERS.																												
I.—1. Miasmatic Diseases.....		48	41	67	39	72	104	15	49	84	75	28	304	24	14	55	8	76	36	5	53	78	2	129	34	104	39	16
2. Euthetic Diseases.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
3. Dietic Diseases.....		.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....
4. Parasitic Diseases.....		.....	.....	1	.....	1	.....	.....	3	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
II.—1. Diathetic Diseases.....		11	19	7	2	5	11	1	.....	20	12	1	28	5	1	9	.....	23	8	.....	14	4	.....	8	1	5	2	6
2. Tubercular Diseases .....		20	42	17	10	42	33	2	21	35	49	1	119	7	1	25	7	68	20	1	55	10	2	26	8	11	3	12

III.—1. Diseases of Nervous System...														
2. Dis. of Organs of Circulation...	16	23	29	13	25	31	3	15	51	55	9	94	6	5
3. Diseases of Respiratory Organs	8	16	3	7	7	13	3	3	18	11	--	22	2	1
4. Diseases of Digestive Organs.	16	15	12	13	17	15	3	10	31	30	2	54	13	1
5. Diseases of Urinary Organs...	8	10	19	--	9	13	4	1	15	14	1	31	8	1
6. Diseases of Generative Organs	2	11	1	1	7	3	--	--	19	4	--	11	3	8
7. Dis. of Organs of Locomotion.	--	1	--	--	1	--	--	--	--	--	--	1	--	--
8. Dis. of Integumentary System	2	1	2	--	2	--	--	--	2	1	--	2	--	4
IV.—1. Developmental Dis. of Child'n														
2. Developmental Dis. of Women	8	8	13	12	14	11	7	5	16	10	1	25	20	2
3. Develop't Dis. of Old People..	1	2	3	3	6	4	1	1	4	6	1	5	--	2
4. Diseases of Nutrition.....	6	25	3	5	11	10	--	2	13	15	--	27	1	11
V.—1. Accident or Negligence.....	1	--	14	2	--	1	--	--	2	5	1	10	1	3
2. Battle.....	3	5	8	5	3	11	4	4	8	8	1	12	2	7
3. Homicide.....	--	1	--	--	1	1	--	--	1	1	--	2	--	--
4. Suicide.....	--	1	1	--	1	1	1	1	2	1	--	4	--	1
5. Execution.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6. Violent Deaths.....	2	4	10	4	3	6	2	1	5	5	1	11	5	1
CLASS I.—ZYMOTIC.....														
I.—ORDER 1. Miasmatic.....	48	41	68	39	73	104	15	49	87	76	28	304	25	15
1. Small-pox.....	48	41	67	39	72	104	15	49	84	75	28	304	24	14
2. Measles.....	--	--	--	--	--	--	--	--	--	--	2	3	23	--
3. Scarletina.....	1	--	1	1	1	--	--	--	2	--	1	14	5	3
4. Diphtheria.....	3	1	1	14	1	5	1	1	10	20	1	26	--	7
5. Quinsy.....	18	7	17	7	29	54	9	32	22	23	17	88	1	4
6. Group.....	--	1	--	1	1	--	--	--	1	--	--	1	--	--
	4	2	6	2	2	2	--	1	10	2	1	24	1	1





[illegible]



[illegible]





[illegible]



### CAUSES OF DEATH, CLASSIFIED.

[illegible]



III.—1. Diseases of Nervous System.....	3	26	25	25	11	40	10	2	10	1	42	1	3	101	28	3	21	31	29	27	17	48	262	12
2. Dis. of Organs of Circulation.....	---	6	8	10	4	23	3	1	1	3	12	---	35	4	1	11	12	12	11	12	10	79	1	
3. Dis. of Respiratory Organs....	3	21	23	22	9	26	16	3	5	10	31	1	89	12	2	17	26	17	17	24	24	149	8	
4. Diseases of Digestive Organs.....	2	15	11	12	29	6	3	3	3	1	19	2	29	2	2	3	31	16	12	8	18	86	3	
5. Diseases of Urinary Organs.....	---	5	2	7	5	4	1	2	1	---	3	---	13	2	---	5	5	7	4	10	7	32	1	
6. Diseases of Generative Organs.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	1	---	---	3	---	
7. Dis. of Organs of Locomotion.....	---	---	---	1	1	1	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
8. Dis. of Integumentary System.....	1	2	1	1	1	2	---	---	1	---	---	---	5	1	---	---	2	---	---	---	3	17	---	
IV.—1. Developmental Dis. of Child'n	3	23	18	29	18	13	9	2	2	9	1	---	81	17	2	12	23	25	10	12	18	168	4	
2. Developmental Dis. of Women	1	9	4	9	3	3	3	---	1	2	1	5	2	7	4	1	3	5	4	3	---	6	36	1
3. Developm'l Dis. of Old People	1	13	8	6	2	15	3	---	2	3	---	11	2	24	13	---	7	18	15	11	---	21	115	---
4. Diseases of Nutrition.....	---	6	1	2	1	4	---	1	---	1	---	7	---	16	5	---	---	9	2	---	1	3	28	---
V.—1. Accident or Negligence.....	1	6	16	14	5	9	3	1	1	2	---	---	35	6	1	3	13	4	---	8	6	40	3	
2. Battle.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3. Homicide.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4. Suicide.....	2	---	1	2	1	---	---	---	---	---	1	---	3	1	---	---	---	---	2	---	---	7	---	
5. Execution.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6. Violent Deaths.....	3	---	---	4	---	3	2	2	---	---	5	---	---	13	6	---	8	2	4	---	4	12	23	3
CLASS I.—ZYMOTIC.....	11	74	81	105	47	1	38	10	41	2	5	99	6	227	45	24	31	121	49	81	49	70	821	26
1.—ORDER 1. Miasmatic.....	11	74	81	104	47	70	38	11	41	2	5	99	6	226	44	24	31	119	49	81	49	69	811	26
1. Small-pox.....	---	---	---	---	2	---	---	---	---	---	---	---	---	3	---	---	---	2	---	1	---	---	13	---
2. Measles.....	2	2	6	3	1	2	---	---	---	---	6	---	8	1	---	2	3	1	1	1	1	18	1	
3. Scarlatina.....	---	10	13	33	9	17	7	---	6	1	26	---	18	5	17	2	9	11	6	7	10	149	---	
4. Diphtheria.....	4	23	14	21	13	19	11	8	23	---	16	---	65	10	---	6	57	7	33	8	11	258	16	
5. Quinsy.....	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---
6. Croup.....	10	3	---	4	3	3	1	1	---	---	4	---	19	8	---	1	8	4	7	---	4	94	2	





[illegible]





[illegible]





### CAUSES OF DEATH, CLASSIFIED.

[illegible]



TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

[illegible]

# VITAL STATISTICS OF MICHIGAN, 1882.

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

[illegible]



2 Poison .....	17	1	54	19	9	12	16	31	2	17	14	17	9	14	16	7	5	17	1	4	18	38	17	1
3. Drowning .....	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4. Hanging .....	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5. Otherwise and not Specified .....	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25 V.—ORDER 5. Execution.....																								
1. Hanging .....																								
V.—ORDER 6. Violent Deaths not Included above .....	208	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNCLASSIFIED .....	104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1. Head Disease .....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Hemorrhage .....	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Inflammation .....	58	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4. Otherwise .....	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Causes not Specified .....	1,435	1	54	19	9	12	16	31	2	17	14	17	9	14	16	7	5	17	1	4	18	38	17	1



4. Diseases of Digestive Organs.	8	10	19	--	9	13	4	1	15	14	1	31	8	1	16	1	16	11	....	10	8	--	15	2	5	2	6
5. Diseases of Urinary Organs...	2	11	1	--	7	3	....	....	19	4	....	11	3	--	8	--	13	8	....	1	1	--	1	--	5	--	..
6. Diseases of Generative Organs .....	....	1	--	--	1	....	--	--	....	--	--	1	--	--	--	--	1	1	--	--	--	--	1	--	--	1	
7. Dis. of Organs of Locomotion.	--	--	1	--	--	....	--	--	....	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
8. Dis. of Integumentary System	2	1	2	--	2	....	--	--	2	1	--	2	--	--	4	--	--	3	--	3	1	--	1	1	1	--	--
IV.—1. Developmental Dis. of Child'n	8	8	13	12	14	11	7	5	16	10	1	25	20	2	17	4	11	11	2	17	19	1	33	5	2	8	3
2. Developmental Dis. of Women	1	2	3	3	6	4	1	1	4	6	1	5	--	--	2	1	4	4	2	5	6	--	5	1	--	1	--
3. Develop'l Dis. of Old People...	6	25	3	5	11	10	--	2	13	15	--	27	1	--	11	1	32	13	1	14	2	3	1	4	4	5	
4. Diseases of Nutrition.....	1	--	14	2	--	1	--	--	2	5	1	10	1	--	3	--	2	2	--	2	--	2	19	--	1	--	--
V.—1. Accident or Negligence.....	3	5	8	5	3	11	4	4	8	8	1	12	2	2	7	1	5	2	2	5	13	--	5	3	3	4	2
2. Battle.....	--	--	--	--	--	....	--	....	....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3. Homicide.....	--	1	--	--	1	1	--	--	1	1	--	2	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--
4. Suicide.....	--	1	1	--	1	1	1	1	2	1	--	4	--	--	1	--	2	1	--	2	1	--	1	1	--	--	--
5. Execution.....	--	--	--	--	--	....	--	....	....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6. Violent Deaths.....	2	4	10	4	3	6	2	1	5	5	1	11	5	1	3	2	5	3	--	1	7	--	41	1	2	3	2
CLASS I.—ZYMOTIC.....	48	41	68	39	73	104	15	49	87	76	28	304	25	15	56	8	76	37	5	54	80	3	130	34	104	39	16
I.—ORDER 1. Miasmatic.....	48	41	67	39	72	104	15	49	84	75	28	304	24	14	55	8	76	36	5	53	78	2	129	34	104	39	16
1. Small-pox.....	--	--	--	--	--	9	--	--	--	2	3	23	--	--	--	--	--	--	--	--	4	--	2	2	--	21	--
2. Measles.....	1	--	1	1	1	....	--	--	2	--	1	14	5	3	1	3	1	2	2	1	2	--	4	1	2	--	--
3. Scarlatina.....	3	1	1	14	1	5	1	1	10	20	1	26	--	--	7	1	5	2	--	3	6	--	19	--	2	2	--
4. Diphtheria.....	18	7	17	7	29	54	9	32	22	23	17	88	1	4	19	1	11	4	--	26	16	2	19	17	69	1	6
5. Quinsy.....	....	1	....	1	1	....	--	1	....	1	--	1	--	--	--	--	1	--	--	1	1	--	--	--	--	--	--
6. Group.....	4	2	6	2	2	2	--	1	10	2	1	24	1	--	1	--	2	1	--	1	4	--	17	2	3	1	--

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH, 1882.	COUNTIES, 1882.																
	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Irona.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalamazoo.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.
7. Whooping-cough.....	2	2		1	1	2	2	1	2	2	2	5					6
8. Typhoid Fever.....	4	6	5	4	12	9	1	4	2	2	2	24	7	2	7	2	20
9. Typhus Fever.....												1					
10. Typho-malarial Fever.....												1					
11. Malaria.....	4	3		2	4	5		2	7	2	2	5			2	6	6
12. Malaria.....												1		1			1
13. Typhoid Fever.....					1	2						2					
14. Typhoid Fever.....												2					
15. Typhoid Fever.....												2					
16. Typhoid Fever.....												2					
17. Typhoid Fever.....												2					
18. Typhoid Fever.....												2					
19. Typhoid Fever.....												2					
20. Typhoid Fever.....												2					
21. Typhoid Fever.....												2					
22. Typhoid Fever.....												2					
23. Typhoid Fever.....												2					
24. Typhoid Fever.....												2					
25. Typhoid Fever.....												2					
26. Typhoid Fever.....												2					
27. Typhoid Fever.....												2					
28. Typhoid Fever.....												2					
29. Typhoid Fever.....												2					
30. Typhoid Fever.....												2					
31. Typhoid Fever.....												2					
32. Typhoid Fever.....												2					
33. Typhoid Fever.....												2					
34. Typhoid Fever.....												2					
35. Typhoid Fever.....												2					
36. Typhoid Fever.....												2					
37. Typhoid Fever.....												2					
38. Typhoid Fever.....												2					
39. Typhoid Fever.....												2					
40. Typhoid Fever.....												2					
41. Typhoid Fever.....												2					
42. Typhoid Fever.....												2					
43. Typhoid Fever.....												2					
44. Typhoid Fever.....												2					
45. Typhoid Fever.....												2					
46. Typhoid Fever.....												2					
47. Typhoid Fever.....												2					
48. Typhoid Fever.....												2					
49. Typhoid Fever.....												2					
50. Typhoid Fever.....												2					
51. Typhoid Fever.....												2					
52. Typhoid Fever.....												2					
53. Typhoid Fever.....												2					
54. Typhoid Fever.....												2					
55. Typhoid Fever.....												2					
56. Typhoid Fever.....												2					
57. Typhoid Fever.....												2					
58. Typhoid Fever.....												2					
59. Typhoid Fever.....												2					
60. Typhoid Fever.....												2					
61. Typhoid Fever.....												2					
62. Typhoid Fever.....												2					
63. Typhoid Fever.....												2					
64. Typhoid Fever.....												2					
65. Typhoid Fever.....												2					
66. Typhoid Fever.....												2					
67. Typhoid Fever.....												2					
68. Typhoid Fever.....												2					
69. Typhoid Fever.....												2					
70. Typhoid Fever.....												2					
71. Typhoid Fever.....												2					
72. Typhoid Fever.....												2					
73. Typhoid Fever.....												2					
74. Typhoid Fever.....												2					
75. Typhoid Fever.....												2					
76. Typhoid Fever.....												2					
77. Typhoid Fever.....												2					
78. Typhoid Fever.....												2					
79. Typhoid Fever.....												2					
80. Typhoid Fever.....												2					
81. Typhoid Fever.....												2					
82. Typhoid Fever.....												2					
83. Typhoid Fever.....												2					
84. Typhoid Fever.....												2					
85. Typhoid Fever.....												2					
86. Typhoid Fever.....												2					
87. Typhoid Fever.....												2					
88. Typhoid Fever.....												2					
89. Typhoid Fever.....												2					
90. Typhoid Fever.....												2					
91. Typhoid Fever.....												2					
92. Typhoid Fever.....												2					
93. Typhoid Fever.....												2					
94. Typhoid Fever.....												2					
95. Typhoid Fever.....												2					
96. Typhoid Fever.....												2					
97. Typhoid Fever.....												2					
98. Typhoid Fever.....												2					
99. Typhoid Fever.....												2					
100. Typhoid Fever.....												2					







	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---



[illegible]





**CAUSES OF DEATH, SPECIFIED.**

229

Males.....	61	50	53	29	50	53	36	44	46	63	84	68	2	671	1020	744	711	366	269	Diphtheria.....	310	210	87	33	10	3	1	2	2
Females..	60	74	55	56	46	39	49	46	48	69	108	82	3	745	1030	798	762	401	294	"	294	351	130	41	7	3	1	3	1
Unknown.																				"									
Males.....																				Disipation.....									
Males.....																				1 Drinking Iced Water.....									
Males.....																				1 Dropsy of Abdomen.....									
Females..																				" "									
Total.....	1	1	1	1	1	1	1	1	2	1	5	2	5	2	4	3	2	4	3	Dropsy of Bowels.....	1	1	1	1	1	1	1	1	1
Males.....	1																			" "									
Females..																				" "									
Total.....	1	6	5	3	5	3	2	3	1	3	35	54	34	37	47	53	28	2	1	" "	1	1	1	1	1	1	1	1	1
Males.....		3	3	1	4	2	2	1		2	20	31	24	21	24	27	16	1	1	Dropsy of Brain.....	28	2	1	1	1	1	1	1	1
Females..	1	3	2	1	1	1	1	2	1	1	15	23	10	16	23	26	12	1	1	" "									
Total.....	1										1	3	6	8	6	4	10			Dropsy of Chest.....									
Males.....											1	2	4	2	3	1	5			" "									
Females..	1																			" "									
Males.....																				Dropsy, General.....									
Females..																				"									
Total.....	4	5	4	5	11	5	3	7	6	4	5	64	100	68	84	75	52			"									
Males.....	2	3	3	1	8	5	2	1	4	2	3	36	42	32	38	41	28			Dropsy of Heart.....	1	1	1	1	1	1	1	1	1
Females..	2	2	1	4	3	3	2	3	4	2	2	28	58	36	46	34	29			" "									
Males.....																				Dropsy of Kidneys.....	1								
Females..																				" "									
Males.....																				Dropsy of Limbs.....									
Females..																				Dropsy of Liver.....									
Males.....																				" "									
Females..																				" "									
Males.....																				Dropsy, Scarlatinal									



3. Dis. of Respiratory Organs.....	3	21	33	22	9	26	16	3	5	10	2	31	1	89	12	2	17	26	17	17	24	24	149	8			
4. Diseases of Digestive Organs.....	2	15	11	12	1	29	6	3	..	3	1	19	2	29	2	2	3	31	16	12	8	18	86	3			
5. Diseases of Urinary Organs.....	..	5	2	7	..	5	4	..	2	1	..	3	..	13	2	..	5	5	7	4	10	7	32	1			
6. Diseases of Generative Organs.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	3	..			
7. Dis. of Organs of Locomotion.....	..	..	..	1	1	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
8. Dis. of Integumentary System.....	1	2	1	1	1	2	..	..	..	1	..	..	..	5	1	..	..	2	..	..	..	3	17	..			
IV.—1. Developmental Dis. of Child'n.....	3	23	18	29	18	13	9	2	2	9	1	26	4	1	81	17	2	12	23	25	10	12	18	168	4		
2. Developmental Dis. of Women.....	1	9	4	9	3	3	3	..	1	2	1	5	2	7	4	1	3	5	4	3	1	6	30	1			
3. Developm'l Dis. of Old People.....	1	13	8	6	2	15	3	2	3	..	..	11	2	34	13	..	7	18	15	11	7	21	115	..			
4. Diseases of Nutrition.....	..	6	1	2	1	4	..	1	..	1	..	7	..	16	5	..	..	9	2	..	1	3	28	..			
V.—1. Accident or Negligence.....	1	6	16	14	5	9	3	1	1	2	..	16	1	35	6	1	3	13	4	6	8	6	40	3			
2. Battle.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
3. Homicide.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..			
4. Suicide.....	2	1	2	1	2	1	..	..	..	..	..	1	..	3	1	..	..	..	2	..	..	7	..	..			
5. Execution.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
6. Violent Deaths.....	3	..	4	4	3	2	2	..	..	..	..	5	..	13	6	..	8	2	4	1	4	12	23	3			
CLASS I.—ZYMOTIC.....	11	74	81	1	105	47	71	38	11	10	41	2	5	99	3	4	227	45	24	31	131	49	81	49	70	821	26
I.—ORDER 1. Miasmatic.....	11	74	81	1	104	47	70	38	11	10	41	2	5	99	6	4	226	44	24	31	119	49	81	49	69	811	25
1. Small-pox.....	..	..	..	2	..	..	..	..	..	..	..	..	..	3	..	..	..	2	..	1	..	..	..	..	..	13	..
2. Measles.....	2	2	6	3	1	2	..	..	..	..	..	6	..	8	1	..	2	3	1	1	1	1	1	1	1	18	1
3. Scarlatina.....	..	10	13	33	9	17	7	..	..	6	1	26	..	18	5	17	2	9	11	6	7	10	149	..	..	..	..
4. Diphtheria.....	4	23	14	21	13	19	11	8	..	23	..	16	..	1	65	10	5	6	57	7	33	8	11	238	16	..	..
5. Quinsy.....	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
6. Group.....	10	3	1	4	3	3	1	1	..	..	..	4	..	1	19	8	..	1	8	4	7	..	4	94	2	..	..



[illegible]





13. Frightened.....	6	8	10	4	23	3	1	1	3	12	35	4	1	11	12	12	11	12	19	79	1
II.—ORDER 2. Organs of Circulation.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
1. Pericarditis.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
2. Aneurism.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
3 Heart Disease.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
4. Emboli.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
II.—ORDER 3. Respiratory Organs.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
1. Epistaxis.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
2. Laryngitis.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
3. Bronchitis.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
4. Pleurisy.....	3	3	3	4	4	3	1	1	3	1	3	1	1	2	1	2	2	3	3	2	2
5. Pneumonia.....	2	14	25	6	17	14	3	3	7	2	63	8	1	13	20	15	12	16	21	78	5
6. Asthma.....	2	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	12	2
7. Lung Disease.....	1	5	4	7	3	1	1	1	1	4	15	3	1	3	4	1	3	6	2	27	1
8. Catarrh.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
II.—ORDER 4. Digestive Organs.....	2	15	11	12	29	6	3	3	1	1	29	2	2	3	31	16	12	8	18	86	3
1. Gastritis.....	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	10	10
2. Enteritis.....	2	7	6	3	8	1	1	1	2	7	18	2	1	1	13	6	5	2	7	29	1
3. Peritonitis.....	2	7	6	3	8	1	1	1	2	7	18	2	1	1	13	6	5	2	7	29	1
4. Ascites.....	2	7	6	3	8	1	1	1	2	7	18	2	1	1	13	6	5	2	7	29	1
5. Ulceration of Intestines.....	2	7	6	3	8	1	1	1	2	7	18	2	1	1	13	6	5	2	7	29	1
6. Hernia.....	2	7	6	3	8	1	1	1	2	7	18	2	1	1	13	6	5	2	7	29	1
7. Obstruction of Bowels.....	2	7	6	3	8	1	1	1	2	7	18	2	1	1	13	6	5	2	7	29	1



[illegible]





**CAUSES OF DEATH, SPECIFIED.**

239

[illegible]



**CAUSES OF DEATH, SPECIFIED.**

[illegible]



[illegible]



TABLE XVII.—*Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year ending December 31, 1882; also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during each of the Years 1877 to 1882, inclusive (Still-births included).*

SEX.		MONTHS, 1882.												YEARS.					AGES IN PERIODS OF YEARS.—1882.																		
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1882.	1881.	1880.	1879.	1878.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total....	978	1171	1372	1311	1480	1294	1284	1453	1545	1498	1421	1570	78	16425	19238	16102	14407	12766	6375	1178	657	665	817	615	518	506	488	444	474	470	587	588	635	501	639	208	
Males....	524	596	715	685	792	681	683	776	827	789	769	835	50	8713	10263	8645	7522	6532	3452	602	306	283	416	287	246	252	245	242	265	263	341	352	367	265	348	151	
Females...	453	571	654	624	683	581	596	673	714	706	656	727	26	7664	8910	7410	6846	6082	2879	576	351	382	400	328	272	254	243	202	209	207	246	236	268	216	291	114	
Unk. ....	1	4	3	2	5	2	5	4	4	3	5	8	2	48	65	47	37	52	44	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	3

DEATHS FROM ALL CAUSES.

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

[illegible]





[illegible]



# VITAL STATISTICS OF MICHIGAN, 1882.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

[illegible]

**CAUSES OF DEATH, SPECIFIED.**

Males	3	1	4	3	2	1	3	1	2	4	27	23	17	24	10	21	Inflammation	20	1	1	1	2	2
Females	3	1	4	5	1	1	7	3	2	3	31	16	23	15	22	18	"	16	1	2	1	3	1
Males												2	1	2	3		Influenza						
Females											1		2	3		1	"						
Total											4				1	3	Injury Internal	1	1			1	1
Males											1	4				3	"						
Females											3				1	"	"	1					
Total											8	10	8	7	11	17	Insanity				2	1	2
Males											6	7	2	4	8	10	"				1	2	1
Females											2	3	6	3	3	7	"						
Total											13	8	12	14	6	7	Intemperance				1	1	3
Males											12	8	12	14	3	7	"				1	1	3
Females											1				3	"	"						
Total											25	41	19	16	22	16	Jaundice	5	1	1		5	2
Males											14	24	11	13	14	11	"	4	1	1			
Females											11	17	8	3	8	5	"	1				5	
Total											138	89	80	36	32	35	Kidney, Bright's Disease of		2	4	8	3	5
Males											107	78	62	23	26	23	"		1	5	3	7	
Females											31	11	18	13	6	12	"		2	3	3		
Total											59	71	53	53	66	42	Kidney Disease	2	3	1	2	4	
Males											43	55	42	42	50	35	"	2			2	4	
Females											16	16	13	11	16	7	"				2	2	
Total											7	23	15	18	13	10	Kidneys, Inflammation of		1	1		1	
Males											4	14	13	13	13	8	"		1				
Females											3	9	2	5		2	"		1				
Males															1	1	Kidneys, Ulceration of						
Females															1		"						
Total															1		"						



[illegible]





[illegible]



[illegible]



[illegible]





**CAUSES OF DEATH, SPECIFIED.**

[illegible]



## CAUSES OF DEATH, SPECIFIED.

243

Total.....	9	7	5	8	10	10	6	4	4	10	8	6	..	57	69	74	84	87	77	Liver Disease .....	9	1	3	1	5	6	5	7	11	18	6	9	4	2	..			
Males .....	6	4	2	5	5	5	4	3	1	5	3	2	..	45	35	36	40	43	45	" .....	6	1	..	1	1	3	2	4	5	11	2	5	3	1	..			
Females ..	3	3	3	3	5	5	2	1	3	5	5	4	..	42	34	38	44	44	32	" .....	3	..	3	..	4	3	3	6	7	4	4	1	1	..	..			
Total.....	..	2	1	1	2	..	2	2	2	2	..	..	..	10	7	3	4	5	11	Liver, Enlargement of.....	3	1	..	2	..	..	1	..	2	1	..	..	..	..				
Males .....	..	..	1	..	..	..	..	..	..	..	..	..	..	4	2	..	2	3	6	" .....	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..			
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	5	3	2	2	5	" .....	3	..	..	..	..	..	..	1	..	..	..	..	..	..	..			
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Liver, Fatty Degen. of.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Total.....	1	1	..	..	1	..	..	..	..	2	1	..	..	6	11	11	8	10	6	Liver, Inflamm. of.....	1	..	..	..	..	..	..	2	..	1	..	..	1	..	..			
Males .....	1	1	..	..	..	..	..	..	..	..	..	..	..	3	7	9	6	6	4	" .....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..			
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	4	2	2	4	2	" .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..			
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	Liver, Ossification of.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Total.....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2	2	4	2	Liver, Ulceration of.....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..			
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	3	2	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	1	1	..	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	Lumbago .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Total.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Lungs, Abscess of.....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Lungs, Apoplexy of.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Total.....	14	12	15	23	32	13	8	9	16	16	20	..	..	172	171	215	176	180	139	Lung Disease .....	75	11	5	10	2	4	7	5	8	6	4	2	4	7	4	5	10	3
Males .....	9	5	6	7	14	7	6	5	4	13	8	10	..	94	89	112	107	97	82	" .....	38	4	3	3	1	4	3	4	6	2	2	4	5	2	3	7	2	
Females ..	5	7	6	9	9	6	3	5	3	7	10	..	77	82	103	69	83	57	..	" .....	36	7	2	7	1	3	3	2	4	..	..	..	..	..	..	..	..	
Unknown.....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	" .....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Males .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	Lungs, Edema of.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Females ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	" .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	



Sex	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
-----	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------





[illegible]



[illegible]

卷之六

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



[illegible]



[illegible]



[illegible]





Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Females	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64																																				





[illegible]

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

[illegible]



[illegible]



[illegible]



## VITAL STATISTICS OF MICHIGAN, 1882.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.		MONTHS, 1882.												YEARS.					CAUSES OF DEATH.	Under 5.	AGES IN PERIODS OF YEARS.—1882.																		
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1882.	1881.	1880.	1879.			1878.	1877.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	3	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	4	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	3	5	7	2	2	"	1	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	12	14	12	7	7	Suffocation	4	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	9	5	5	5	Suffocation	3	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Female	1	1	1																																				

Males.....																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--





Females ..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---





The special causes tabulated as "Casualty" are shown in Exhibit R. It is hoped that the information presented here may lead to more perfect knowledge and more effective measures for the prevention of violent deaths.

EXHIBIT R.—*Deaths in Michigan in 1882, Compiled as Casualty.*

CASUALTY,—CAUSES AS RETURNED.	Num-ber.	CASUALTY,—CAUSES AS RETURNED.	Num-ber.
Total number tabulated as Casualty in Table .....	268	Injury to head.....	2
Killed in mine.....	17	Killed by cyclone.....	6
Killed by engine.....	1	Death from fall.....	28
Accidental .....	88	Killed by runaway.....	21
Injury under ground.....	1	Killed by stump machine.....	1
Fall on boat.....	2	Killed by falling building.....	4
Explosion of powder.....	1	Fell from tree.....	4
Fall from dock.....	2	Killed by bursting of emery wheel.....	1
Injury to spine from fall.....	1	Killed by falling timber.....	2
Kicked by a horse.....	13	Fell from building.....	4
Stepped on a nail.....	1	Run over by hack.....	1
Killed in saw mill.....	6	Struck by a beetle.....	1
Run over by cars.....	2	Fell into a post hole.....	1
Accident in woods.....	17	Injured by sled.....	1
Killed by caving bank.....	4	Fell from swing.....	1
Fell on ice.....	1	Taking vitalized air.....	1
Fell down stairs.....	3	Fell in cistern.....	1
Killed in well.....	2	Fell from hay mow.....	1
Killed by wagon.....	3	Killed by a sheep.....	1
Explosion of boiler.....	7	Toy pistol.....	1
Killed in mill.....	9	Killed by street car.....	1
Gored by a cow.....	2	Fell in vault.....	1

STATISTICS OF SUICIDE.

The whole number of suicides returned for the year 1882 is 62, of which 44 were males and 18 females. The average annual number for the 10 years 1873-1882 is 57. Of the whole number 30 were of American birth, 17 being from Michigan and 13 from other states. Eleven were natives of Germany, 7 of Canada, 2 of England, 2 of Holland, 1 each of Denmark, Ireland, Poland, Prussia, Scotland, and Switzerland. In four cases the nativity was not stated. The largest number of suicides among males occurred between the ages of 35 to 40 years, and the largest number among females between the ages of 15 to 20.

The classification by conjugal condition reveals the following facts. There were twenty-five married males and eight married females, sixteen bachelors, and eight unmarried females, two widows and one widower among the number of suicides. Of two males and one female the social condition was not stated.

The means employed were various. In the case of 19 males and 7 females it was not given. Seventeen suicided by poison, 7 by shooting, 8 by hanging, 3 by drowning, and 1 by throat-cutting.

The greatest number of suicides was among farmers, the next greatest among those classed as laborers.

EXHIBIT 9.—*Certain facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1882.*

DATE OF DEATH, 1882.		Age.	Condi- tion.	Sex.	Color.	Occupation.	Nativity.	Means Used.
Month.	Day.							
January	20	35	M.	M.	W.	Laborer.....	Connecticut.....	Not given.
January	19	22	S.	M.	W.	Laborer.....	Michigan.....	Hanging.
February	6	36	S.	M.	W.	Miller.....	Unknown.....	Not given.
February	27	27	S.	M.	W.	Farmer.....	Prussia.....	Shooting.
February	23	39	S.	M.	W.	Farmer.....	Michigan.....	Cutting Throat.
March	6	35	Unk.	M.	W.	Laborer.....	Canada.....	Hanging.
March	28	12	Unk.	F.	W.	Unknown.....	Germany.....	Poison.
March	24	50	Unk.	M.	W.	Teamster.....	England.....	Not given.
March	14	48	M.	M.	W.	Carpenter.....	Germany.....	Not given.
April	15	51	S.	M.	W.	Farmer.....	Canada.....	Not given.
April	27	16	S.	F.	W.	Unknown.....	Michigan.....	Poison.
April	7	63	M.	M.	W.	Unknown.....	Holland.....	Not given.
April	17	36	M.	M.	W.	Foreman.....	Scotland.....	Not given.
April	Unk.	72	W.	F.	W.	Unknown.....	Ohio.....	Hanging.
April	7	44	M.	M.	W.	Workman.....	Germany.....	Shooting.
May	31	18	S.	F.	W.	Waiter.....	Ontario.....	Poison.
May	25	33	S.	M.	W.	Mechanic.....	New York.....	Morphine.
May	22	28	S.	M.	W.	Laborer.....	Canada.....	Not given.
May	16	29	M.	M.	W.	Liquor Store...	Germany.....	Drowning.
May	10	26	M.	M.	W.	Farmer.....	New York.....	Not given.
May	1	60	S.	M.	W.	Mason.....	Germany.....	Shooting.
May	17	51	M.	M.	W.	Farmer.....	Unknown.....	Hanging.
May	12	72	M.	F.	W.	Farmer.....	Ireland.....	Not given.
June	11	41	M.	M.	W.	Farmer.....	Michigan.....	Poison.
June	12	18	S.	F.	W.	Unknown.....	Michigan.....	Poison.
June	6	37	S.	F.	W.	Housekeeper...	New York.....	Morphine.
June	24	32	M.	M.	W.	Farmer.....	Michigan.....	Drowning.
June	26	36	M.	M.	W.	Dep. Rev. Col.	Ohio.....	Not given.
June	14	50	M.	F.	W.	"Saloon".....	Germany.....	Not given.
June	1	19	S.	F.	W.	Laborer.....	Michigan.....	Poison.
July	6	75	M.	M.	W.	Farmer.....	Canada.....	Hanging.



EXHIBIT 9.—CONTINUED.—*Suicidal Deaths, 1882.*

DATE OF DEATH, 1882.		Age.	Condi- tion.	Sex.	Color.	Occupation.	Nativity.	Means Used.
Month.	Day.							
July.....	25	73	W.	F.	W.	Unknown.....	Michigan.....	Poison.
August.....	28	22	S.	M.	W.	Woodsman.....	Pennsylvania..	Not given.
August.....	7	33	M.	F.	W.	Unknown.....	Unknown.....	Not given.
August.....	21	21	S.	M.	W.	Farmer.....	Canada.....	Poison.
August.....	17	35	M.	M.	W.	Barber.....	Michigan.....	Not given.
August.....	2	36	M.	F.	W.	Housewife.....	Michigan.....	Hanging.
August.....	20	23	M.	M.	W.	Farmer.....	Michigan.....	Not given.
August.....	26	25	M.	F.	W.	Housewife.....	Michigan.....	Drowning.
September...	29	45	S.	M.	W.	Veterinary.....	Denmark.....	Poison.
September...	8	44	M.	M.	W.	Farmer.....	England.....	Shooting.
September...	10	42	M.	M.	W.	Farmer.....	New York.....	Morphine.
September...	19	57	W.	M.	W.	Laborer.....	Germany.....	Not given.
September...	25	48	M.	M.	W.	Cigar Maker.....	Germany.....	Not given.
October.....	17	66	M.	M.	W.	Farmer.....	Ohio.....	Shooting.
October.....	20	26	S.	M.	W.	Laborer.....	Michigan.....	Poison.
October.....	28	61	M.	F.	W.	Housewife.....	New York.....	Hanging.
October.....	23	65	M.	M.	W.	Farmer.....	Canada.....	Hanging.
October.....	14	18	S.	F.	W.	Laborer's Child	Michigan.....	Not given.
October.....	2	35	M.	M.	W.	Farmer.....	Germany.....	Paris Green.
October.....	19	49	M.	F.	W.	Housewife.....	Switzerland...	Not given.
November...	2	35	M.	M.	W.	Farmer.....	Michigan.....	Shooting.
November...	14	72	M.	M.	W.	Laborer.....	New York.....	Not given.
November...	26	41	S.	M.	W.	Unknown.....	Michigan.....	Morphine.
November...	16	62	M.	M.	W.	Servant.....	Germany.....	Not given.
December...	21	69	S.	M.	W.	Cook.....	Holland.....	Not given.
December...	5	15	S.	F.	W.	Domestic.....	Minnesota.....	Poison.
December...	7	68	S.	F.	W.	Housekeeper..	New York.....	Not given.
December...	10	28	S.	M.	W.	Travel'g Agent	Michigan.....	Poison.
December...	15	27	S.	M.	W.	Laborer.....	Poland.....	Shooting.
December...	20	29	M.	M.	W.	Laborer.....	Germany.....	Not given.
Unknown....	Unk.	40	M.	F.	W.	Unknown.....	Unknown.....	Not given.

EXHIBIT 9.—CONTINUED.—*Suicidal Deaths, 1882.*

OCCUPATIONS.	No.	OCCUPATIONS.	No.	OCCUPATIONS.	No.
Barber.....	1	Housewives .....	4	Teamster.....	1
Carpenter.....	1	Laborers.....	9	Town Laborer.....	1
Cigar-maker.....	1	Laborer's Daughter .....	1	Traveling Agent.....	1
Cook.....	1	Liquor Store.....	1	Unknown.....	9
Dep. Revenue Collector.....	1	Mason.....	1	Veterinary .....	1
Domestic .....	1	Mechanic .....	1	Waiter Girl.....	1
Farmers .....	17	Miller.....	1	Woodsman.....	1
Foreman.....	1	"Saloon" .....	1	Workman.....	1
Housekeepers.....	2	Servant.....	1		
Total.....					63

Nativity.	No.	Nativity.	No.	Nativity.	No.
Canada.....	6	Ireland .....	1	Pennsylvania .....	1
Connecticut.....	1	Michigan .....	17	Poland.....	1
Denmark .....	1	Minnesota .....	1	Prussia .....	1
England .....	2	New York .....	7	Scotland.....	1
Germany .....	11	Ohio .....	3	Switzerland .....	1
Holland.....	2	Ontario .....	1	Unknown .....	4
Total.....				63	

[illegible]

## PRINCIPAL CAUSES OF DEATH.

The following table gives the number of deaths in Michigan, from each of fifteen principal causes, arranged in order of greatest fatality, in the year 1882. Consumption again assumes its place at the head of the list, having been superseded by diphtheria in 1881. Although the number of deaths from consumption, in 1882, is less than for the two previous years, it is still greater than the average for ten years (1873-1882) by 156.

Next to consumption, diphtheria has caused the greatest destruction of human life for each of the years 1878-1882. The most noticeable changes from 1881 have been in typhoid fever and diarrhea. Typhoid fever declined from third place in 1881 to eighth place in 1882, while diarrhea, occupying eighth place in 1881, has disappeared entirely from the table. Scarlatina ranked sixth in 1878 and 1879, tenth in 1880 and 1881, and sixth again in 1882.

The fifteen leading causes of death formed 57.13 per cent of the total mortality of the State in 1882, as compared with 57.43 in 1881 and 58.02 in 1880. Some of these important causes of death will be considered again in subsequent pages.

TABLE XVIII.—*Order of Succession of Fifteen Principal Conditions and Causes of Death in Michigan in 1882, according to the Returns, Exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths and the Per Cent of Deaths from each Cause to Deaths from All Causes.*

ORDER.	SPECIFIED CAUSES AND CONDITIONS.—1882.	NUMBER OF DEATHS.			PER CENT FROM EACH CAUSE TO DEATHS FROM ALL CAUSES.		
		Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption.....	1,804	832	972	10.98	9.53	12.68
2	Diphtheria .....	1,416	671	745	8.62	7.70	9.72
3	Still-born .....	a 792	438	321	4.82	5.03	4.19
4	Pneumonia.....	b 735	403	330	4.47	4.63	4.31
5	Old Age.....	647	317	330	3.94	3.64	4.31
6	Scarlet Fever.....	592	276	316	3.60	3.17	4.12
7	Heart Disease.....	510	264	246	3.11	3.03	3.21
8	Fever, Typhoid.....	c 463	269	193	2.82	3.09	2.52
9	Apoplexy and Paralysis.....	443	240	203	2.70	2.75	2.65
10	Cholera Infantum .....	428	221	207	2.61	2.54	2.70
11	Convulsions.....	356	193	158	2.17	2.27	2.06
12	Dropsy (unspecified).....	317	161	156	1.93	1.85	2.04
13	Croup.....	303	183	120	1.84	2.10	1.57
14	Cancer.....	301	139	162	1.83	1.60	2.11
15	Brain, Inflammation of.....	276	156	120	1.68	1.79	1.57
Total.....		d 9,383	4,768	4,579	57.13	54.72	59.75
All Causes.....		e 16,425	8,713	7,694	100.00	100.00	100.00

a Includes 33 unknown sex.

b Includes 2 unknown sex.

c Includes 1 unknown sex.

d Includes 36 unknown sex.

e Includes 48 unknown sex.



EXHIBIT T.—*Order of Succession of Fifteen Principal Causes of Death in Michigan for each of the Years 1875-1882, inclusive.*

ORDER.	1875.		1876.		1877.		1878.	
1	Consumption.....	1479	Consumption.....	1590	Consumption.....	1664	Consumption.....	1641
2	Pneumonia.....	745	Still-born.....	646	Still-born.....	720	Diphtheria.....	887
3	Still-born.....	629	Pneumonia.....	627	Diphtheria.....	593	Still-born.....	793
4	Typhoid Fever.....	433	Old Age.....	483	Old Age.....	489	Old Age.....	579
5	Scarlet Fever.....	423	Typhoid Fever.....	426	Pneumonia.....	465	Pneumonia.....	462
6	Old Age.....	373	Scarlet Fever.....	359	Typhoid Fever.....	446	Scarlet Fever.....	429
7	Cholera Infantum.....	289	Apoplexy and Par.....	337	Scarlet Fever.....	404	Heart Disease.....	332
8	Heart Disease.....	289	Cholera Infantum.....	331	Cholera Infantum.....	370	Typhoid Fever.....	320
9	Diarrhea.....	283	Heart Disease.....	320	Heart Disease.....	367	Apoplexy and Par.....	323
10	Apoplexy and Par.....	259	Diphtheria.....	311	Apoplexy and Par.....	329	Convul. and Fits.....	288
11	Convul. and Fits.....	258	Diarrhea.....	304	Convul. and Fits.....	298	Cancer.....	269
12	Brain, Inflam. of.....	232	Brain, Inflam. of.....	275	Brain, Inflam. of.....	291	Dropsy.....	249
13	Bowels, Inflam. of.....	218	Convul. and Fits.....	275	Cancer.....	265	Cholera Infantum.....	243
14	Casualty.....	215	Cancer.....	241	Diarrhea.....	265	Brain, Inflam. of.....	225
15	Dropsy.....	215	Bowels, Inflam. of.....	239	Bowels, Inflam. of.....	226	Bowels, Inflam. of.....	214

ORDER.	1879.		1880.		1881.		1882.	
1	Consumption.....	1680	Consumption.....	1829	Diphtheria.....	2063	Consumption.....	1804
2	Diphtheria.....	1473	Diphtheria.....	1542	Consumption.....	1954	Diphtheria.....	1416
3	Still-born.....	749	Pneumonia.....	812	Fever, Typhoid.....	884	Still-born.....	792
4	Pneumonia.....	701	Still-born.....	738	Cholera Infantum.....	837	Pneumonia.....	735
5	Old Age.....	608	Old Age.....	625	Pneumonia.....	805	Old Age.....	647
6	Scarlet Fever.....	418	Fever, Typhoid.....	513	Old Age.....	725	Scarlet Fever.....	592
7	Heart Disease.....	414	Cholera Infantum.....	499	Still-born.....	691	Heart Disease.....	510
8	Fever, Typhoid.....	397	Heart Disease.....	444	Diarrhea.....	501	Fever, Typhoid.....	463
9	Apoplexy and Par.....	358	Apoplexy and Par.....	389	Heart Disease.....	451	Apoplexy and Par.....	443
10	Cholera Infantum.....	300	Scarlet Fever.....	370	Scarlet Fever.....	383	Cholera Infantum.....	428
11	Convul. and Fits.....	275	Convul. and Fits.....	347	Apoplexy and Par.....	369	Convulsions.....	356
12	Cancer.....	272	Casualty.....	340	Brain, Inflam. of.....	361	Dropsy (unspec.).....	317
13	Dropsy.....	260	Diarrhea.....	310	Bowels, Inflam. of.....	342	Croup.....	303
14	Casualty.....	245	Brain, Inflam. of.....	300	Convul. and Fits.....	337	Cancer.....	301
15	Bowels, Inflam. of.....	237	Cancer.....	284	Casualty.....	325	Brain, Inflam. of.....	276

Exhibit T shows some of the diseases that have occasioned the greatest loss of life in Michigan for a period of years extending from 1875 to 1882, inclusive. There is, of course, great diversity, but some interesting features may be discovered concerning the order of diseases in different years. Thus, the rise of diphtheria from tenth place in 1876 to third place in 1877; second place in 1878, 1879, and 1880; first place in 1881; and back again to second place in 1882.

Tables XIX. and XX. show the number and per cent of deaths, by ages and seasons for 1882, from each of ten prominent causes. Some very interesting features characterize these tables. It may be noticed that the two most striking differences, in mortality by sex, are that many more females than males die of cancer, and more males than females of croup. Cancer appears to be especially fatal at ages from forty to seventy-five, and quite evenly distributed through the different months of the year. Cephalitis was most fatal in September, October, and August, and in ages under five years. Croup and diphtheria were most fatal in early winter, and least so in summer; a very large proportion of the deaths occurred in infancy and childhood.

Diarrhea and dysentery prevailed as usual, in hot weather, being of very little prominence until July, then falling off again in November. More than three-fourths of the mortality occurred among those under five years of age, and of the two sexes the males predominate. In 1882, measles occurred mostly in the months of April, May, and June, and in ages under five. Scarlet fever increased from October to March and then decreased; nearly two-thirds of its mortality was at the age of five or under. Of the two sexes the females were in the excess. The mortality from typhoid fever increased rapidly in September, reached its highest point in October, and then declined again to quite its normal average in December. The greatest number of deaths was between the ages of fifteen and thirty, the most of which being those aged twenty to twenty-five. Deaths among males exceeded by 16.42 per cent the deaths among females. Whooping cough, the last disease represented in Tables XIX. and XX., shows an equal percentage of males and females, and was less fatal than usual. About 94 per cent of the deaths from whooping cough were under the age of five years.

TABLE XIX.—Deaths from Ten Specified Causes Returned as having occurred in Michigan, during the Year 1882, Exhibiting the Number of each Sex, Total Number in each Month, and at different Periods of Age.

SEX, MONTHS, AND AGES.		CAUSES OF DEATH,—1882.									
		Cancer.	Cepha- litis.	Croup. <sup>a</sup>	Diar- rhea. <sup>b</sup>	Diph- theria.	Dysen- tery. <sup>c</sup>	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing Cough.
SEX.	Total.....	301	276	349	259	1,416	96	150	592	463	86
	Males.....	139	136	212	144	671	56	82	276	269	43
	Females.....	162	120	137	115	745	40	68	316	193	43
	Unknown.....									1	
MONTHS.	January.....	16	15	44	2	121		14	43	31	4
	February.....	19	19	21		124		8	56	34	3
	March.....	26	22	24	6	118	6	13	64	30	10
	April.....	21	27	23	9	115	1	16	37	18	9
	May.....	27	17	32	5	96	2	18	50	35	13
	June.....	29	20	19	15	94	6	19	48	30	6
	July.....	23	23	19	33	85	13	15	33	20	5
	August.....	36	25	12	73	90	20	9	39	27	14
	September.....	25	42	22	73	94	33	7	41	52	7
	October.....	29	29	31	26	132	13	12	54	91	4
	November.....	23	13	49	11	192		7	67	53	7
	December.....	23	22	53	6	150	2	11	59	40	4
AGES.	Unknown.....	4	2			5		1	1	2	
	Av. Month..... <sup>d</sup>	25	23	29	22	118	8	12	49	38	7
	Under 5.....	5	172	293	227	613	73	102	327	36	81
	5 to 10.....	1	32	49	3	471	8	23	172	33	4
	10 to 15.....	1	23	5	1	217	1	5	52	54	
	15 to 20.....	1	8			74	1	8	20	72	
	20 to 25.....	1	8		2	17		3	10	90	
	25 to 30.....	7	6		2	6	1	3	7	32	
	30 to 35.....	7	1		1	1	1	1	2	33	
	35 to 40.....	14	5		1	3	1	1		13	
	40 to 45.....	25	3		3	5	2	2		10	
	45 to 50.....	29	2	1			2			19	
	50 to 55.....	29	5			1		1		16	
	55 to 60.....	28	2		2	1	1			12	
	60 to 65.....	36	2		3		1			14	
	65 to 70.....	40	2		6		1		1	3	
	70 to 75.....	39				1	1			10	
	75 to 80.....	15								2	
	80 and over.....	13			5		2			3	
	Unknown.....	8	5	1	3	6		1	1	11	1

<sup>a</sup> Includes 46 Membranous Croup.  
<sup>d</sup> of unknown month.<sup>b</sup> Includes 10 Chronic.<sup>c</sup> Includes 3 Chronic.<sup>d</sup> Exclud.



TABLE XX.—Per Cent of Deaths returned as having occurred in Michigan during the Year ending December 31, 1882, from each of Ten Specified Causes to Deaths from All Causes; and Per Cent of each Sex, of Deaths in each Month, and at different Periods of Life, to Total Deaths from each Specified Cause.

SEX, MONTHS, AND AGES.		CAUSES OF DEATH, 1882.—PER CENT OF TOTAL.									
		Cancer.	Cepha- litis.	Croup.	Diar- rhea.	Diph- theria.	Dysen- tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop ing Cough.
SEX.	Per Ct. of All Causes	1.83	1.68	2.12	1.58	8.62	.58	.91	3.60	2.82	.52
	Males .....	46.18	56.52	60.74	55.60	47.39	58.33	54.67	46.02	58.10	50.00
	Females .....	53.82	43.48	39.26	44.40	52.61	41.67	45.33	53.33	41.68	50.00
	Unknown .....									.22	
MONTHS.	January .....	5.32	5.44	12.61	.77	8.55		9.33	7.26	6.70	4.65
	February .....	6.31	6.88	6.02		8.76		5.33	9.46	7.34	3.49
	March .....	8.64	7.97	6.88	2.32	8.33	6.25	8.67	10.81	6.48	11.63
	April .....	6.98	9.78	6.59	3.47	8.12	1.04	10.67	6.25	3.89	10.46
	May .....	8.97	6.16	9.17	1.93	6.78	2.08	12.00	8.45	7.56	15.12
	June .....	9.63	7.25	5.44	5.79	6.64	6.25	12.67	8.11	6.48	6.98
	July .....	7.64	8.33	5.44	12.74	6.00	13.54	10.00	5.58	4.32	5.81
	August .....	11.96	9.06	3.44	28.19	6.36	20.84	6.00	6.59	5.83	16.28
	September .....	8.31	15.22	6.30	28.19	6.64	34.38	4.67	6.91	11.21	8.14
	October .....	9.63	10.51	8.88	10.04	9.32	13.54	8.00	9.12	19.66	4.65
	November .....	7.64	4.71	14.04	4.25	13.56		4.66	11.32	11.45	8.14
	December .....	7.64	7.97	15.19	2.31	10.59	2.08	7.33	9.97	8.64	4.65
AGES.	Unknown .....	1.33	.72			.35		.67	.17	.43	
	Av. Month.... <sup>a</sup>	8.22	8.27	8.33	8.33	8.30	8.33	8.29	8.32	8.30	8.33
	Under 5 .....	1.66	62.32	83.95	87.64	43.29	76.04	68.00	55.24	7.76	94.19
	5 to 10 .....	.33	11.60	14.04	1.16	33.26	8.34	15.33	29.05	7.13	4.65
	10 to 15 .....	.33	8.33	1.43	.38	15.33	1.04	3.33	8.78	11.66	
	15 to 20 .....	.33	2.90			5.23	1.04	5.33	3.38	15.55	
	20 to 25 .....	.33	2.90		.77	1.20		2.00	1.69	19.44	
	25 to 30 .....	2.32	2.18		.77	.43	1.04	2.00	1.18	6.91	
	30 to 35 .....	2.32	.36		.39	.07	1.04	.67	.34	7.13	
	35 to 40 .....	4.65	1.81		.39	.21	1.04	.67		2.81	
	40 to 45 .....	8.31	1.09		1.16	.35	2.09	1.33		2.16	
	45 to 50 .....	9.64	.73	.29			2.09			4.10	
	50 to 55 .....	9.63	1.81			.07		.67		3.46	
	55 to 60 .....	9.30	.72		.77	.07	1.04			2.59	
	60 to 65 .....	11.96	.72		1.16		1.04			3.02	
	65 to 70 .....	13.29	.72		2.32		1.04		.17	.65	
70 to 75 .....	12.06				.07	1.04			2.16		
75 to 80 .....	4.99								.43		
80 and over .....	4.98			1.93		2.08			.65		
known .....	2.66	1.81	.29	1.16	.43		.67	.17	2.38	1.16	

including deaths in unknown month.

*Cancer.*—The number of deaths reported from cancer, including the various kinds, was 301, or 1.83 per cent of the deaths from all causes. The annual average number for the ten years 1873-1882, is 250. There was a constant annual increase in the mortality from this disease from 1871 to 1881. The average annual excess of deaths among females over that among males from cancer for ten years is 35. In 1882, the largest number of deaths from cancer occurred in the month of August, and the mortality was also the greatest among those from sixty-five to seventy years of age.

Exhibit S specifies what part of the body was affected, where that fact was noted, among the decedents from cancer in 1882. In more than half of the cases (54.82 per cent) the part of the body affected was not stated. So far as reported, cancer of the stomach exceeded all others by a large majority, and this has been the case in previous years.

**EXHIBIT S.**—*Deaths from Cancer Returned as having occurred in Michigan during the Year 1882, indicating part of body affected.*

AS RETURNED.	Total.	Males.	Fe- males.	AS RETURNED.	Total.	Males.	Fe- males.
Aggregate.....	301	139	162	Cancer of Rectum.....	1	1	.....
Cancer.....	165	77	88	Cancer on Back.....	1	1	.....
Cancer of Stomach.....	62	36	26	Cancer on Head.....	2	2	.....
Cancer of Oesophagus.....	1	.....	1	Cancer of Neck.....	1	1	.....
Cancer of Kidney.....	2	2	.....	Cancer of Bowels.....	5	1	4
Cancer of Womb.....	20	.....	20	Cancer of Knee.....	1	1	.....
Cancer of Breast.....	15	.....	15	Cancer of Throat.....	1	1	.....
Cancer of Face.....	11	7	4	Cancer of Groin.....	1	1	.....
Cancer of Side.....	2	1	1	Cancer of Foot.....	1	1	.....
Cancer of Liver.....	7	6	1	Cancer of Lungs.....	1	.....	1
				Cancer of Pancreas.....	1	.....	1

*Cholera Infantum.*—There were 428 deaths returned from this cause in 1882, a number less by 429 than was returned in 1881, and less by 71 than was returned in 1880. The average annual number for the ten years 1873-1882, is 390, which is somewhat less than has been returned for the last three years. The percentage of deaths from cholera infantum to deaths from all causes, in 1882, was 2.61. In 1881 it was 4.46, and in 1880 3.10 per cent of the deaths from all causes. The average percentage, during the last ten years, of deaths from this disease, as compared with deaths from all causes, was 2.64.

Although deaths were reported in every month, 360 or 84 per cent of the whole number, occurred in the months of July, August, September, and October. The greatest mortality was in August, when there were 138 deaths; the least was in January when there were only 4. Deaths from cholera infantum were reported by nearly all the counties of the State in 1882, but it was most fatal in the large cities.

*Measles.*—Only 150 deaths were returned from this cause in 1882, a number less by 106 than was returned in 1881. The average annual number for ten years 1873-1882, is 132. In all the years the deaths from measles were divided nearly equally between the two sexes. The largest mortality occurred in the months of April, May, and June, and the least was in September and



November. The first six months of the year show a considerably larger number of deaths than the last six months. One hundred and two of those who died were less than five years of age; these comprised sixty-eight per cent of the whole number, and those under 10 comprised 83 per cent. One person died over fifty years of age.

*Whooping-cough.*—According to the returns, only 86 deaths from whooping-cough occurred in this State in 1882, as compared with 142 in 1881, and 264 in 1880. The annual average number for the fourteen years 1869–1882, is 150. There was an equal representation from each sex, 43 males and 43 females, but in previous years there has been an excess of females for every year except 1872 and 1873. Of the 86 deaths, 81 or 94.19 per cent, were of children under 5 years of age. There were 14 deaths in August; 13 in May; 10 in March; 9 in April; 7 each in September and November; 6 in June; 5 in July; 4 each in January, October, and December; and 3 in February.

*Small-pox.*—This dreaded disease showed, in 1881, a decided increase, its mortality throughout the State amounting to 82, or more than five times that reported in the previous three years. The deaths were divided among the following counties: Antrim 13, Delta 4, Jackson 1, Kent 4, Leelanaw 42, Mecosta 1, Montcalm 3, Oakland 2, St. Clair 1, and Wayne 11. The excessive mortality in Antrim and Leelanaw counties was largely among the Indians, and was over sixty-seven per cent of the whole number of deaths from small-pox. The beginning of the mortality was in the month of March, 1881, as in that month was recorded the first death. From this point we observe a nearly regular increase to November, 1881, when the highest monthly mortality was reached. The disease continued during the year 1882 with more or less deaths in each month, until in November there were only two deaths reported. In 1882, the largest mortality occurred in July, and the counties reporting deaths were as follows: Allegan 1, Antrim 2, Calhoun 5, Genesee 6, Ionia 9, Kalamazoo 2, Kalkaska 3, Kent 22, Manistee 4, Marquette 2, Mason 2, Menominee 21, Newaygo 3, Saginaw 3, St. Clair 2, Tuscola 1, and Wayne 13.

The following tabular exhibit presents the total mortality from small-pox in Michigan during fourteen years, with the per cent of deaths from this disease to deaths from all causes.

*Deaths from Small-pox in Michigan,—Fourteen Years. Number and Percentages.*

YEAR.	Deaths from All Causes.	Deaths from Small-pox.	Per Cent of Deaths from Small-pox to Deaths from All Causes.	YEAR.	Deaths from All Causes.	Deaths from Small-pox.	Per Cent of Deaths from Small-pox to Deaths from All Causes.
1869.....	9,145	42	.46	1876.....	12,576	76	.60
1870.....	10,766	9	.08	1877.....	12,919	102	.79
1871.....	9,728	73	.75	1878.....	12,766	6	.05
1872.....	13,371	302	2.26	1879.....	14,407	6	.04
1873.....	14,258	90	.63	1880.....	16,102	3	.02
1874.....	12,500	18	.14	1881.....	19,238	82	.43
1875.....	11,990	26	.22	1882.....	16,425	100	.61
Average.....					13,299	67	.51

It is worthy of notice that the disease appears to move in wave-like periods through a series of years. The years 1871, 1872, 1876, 1877, 1881, and 1882 indicate the greatest activity of small-pox in Michigan, while the years immediately following show a marked decrease in the number of deaths. The sudden rise from three deaths in 1880 to eighty-two deaths in 1881, is especially worthy of observation.

By reference to Table XVII., on page 251, the ages of those who died from small-pox may be seen for the year 1882. Twenty-four per cent of those dying were under five years of age, and 28 per cent were between the ages of fifteen and twenty-five, while those who died under the age of twenty-five constituted 68 per cent of the whole number. Of those dying in 1881 over 28 per cent were under five years of age, and over 62 per cent of the total number of deaths were under the age of twenty-five.

#### METEOROLOGY, AND ITS RELATION TO DEATHS.

The following tables, exhibits, and diagrams show some of the results of meteorological observations made by observers for the State Board of Health and for the U. S. Signal Service, at various stations throughout the State, during the year 1882, and also at the State Agricultural College. It is thought that the average of these observations, as tabulated, shows with sufficient accuracy the atmospheric conditions of the whole State. The value of studying meteorological statistics in connection with those of deaths has long been considered of great importance, and this is now universally recognized. Much useful information may be gained by comparing these tables with those of deaths from some of the most important causes. We here study the occurrence of deaths from different diseases, in regard to season, prevailing winds, humidity of air, ozone, and atmospheric pressure.

The months in these tables are arranged in order, those in which occurred the greatest number of deaths are placed first, the other months following in the order of their mortality.

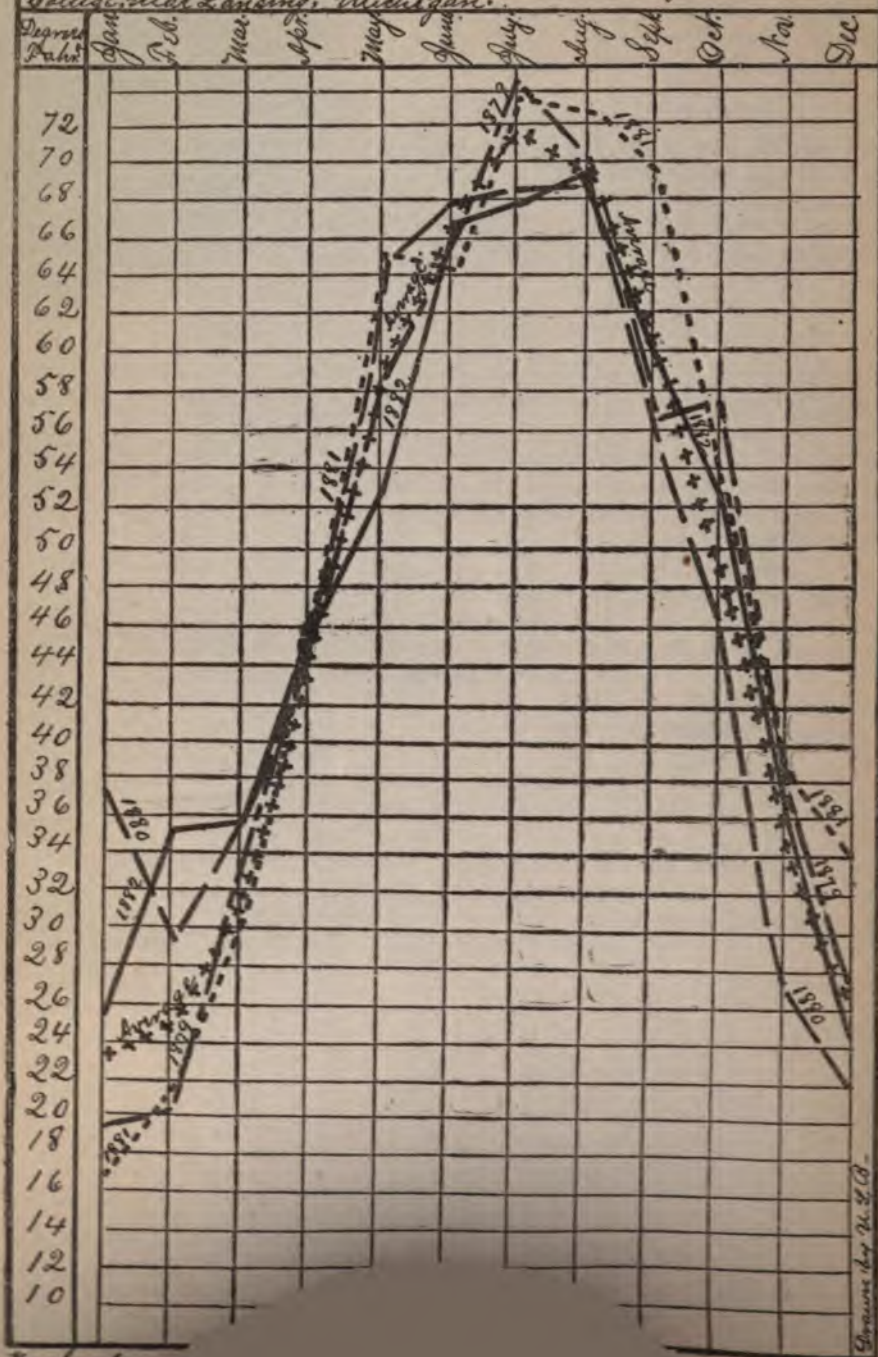
The weather record during 1882, as indicated by the temperature, and as recorded at the Agricultural College, may be seen in Exhibit 10. The annual average temperature for 1882 was  $47.57^{\circ}$ , which was .84 of a degree higher than the average for ten years, and  $1.16^{\circ}$  lower than the average for 1881. The month of May was unusually cold, over six degrees colder than the average for ten years; while the month of February was remarkably mild, nearly eleven degrees warmer than the average for ten years.





# Diagram No. 4.

Average Temperature, by months, for the years 1879, 1880, 1881, and 1882, and the Average for 10 Years ending with 1882, at the Agricultural College, near Lansing, Michigan.



\* Scale =

Drawn by W. H. C.

**EXHIBIT 10.—TEMPERATURE.**—*Average by Years and by Months, for the Years 1873 to 1882, inclusive, at the Agricultural College, near Lansing, Michigan. (Results of Observations by Prof. R. C. Kedzie.)*

YEARS.	Annual Average.	AVERAGE TEMPERATURE, STATED IN DEGREES FAHRE., BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1873.....	44.54	15.87	19.10	28.30	43.17	56.98	70.60	70.82	69.49	57.38	44.68	28.49	29.54
1874.....	47.32	27.70	25.51	32.30	36.87	59.58	70.61	72.02	69.39	62.85	49.10	35.00	26.96
1875.....	43.00	12.87	8.35	26.20	41.11	60.82	66.57	69.67	65.48	58.50	42.93	32.96	31.58
1876.....	46.17	30.22	27.38	30.55	44.16	57.95	68.14	72.48	71.55	56.30	43.74	36.33	15.23
1877.....	47.42	18.07	32.31	24.51	46.16	58.25	65.93	71.43	68.46	61.28	50.83	35.24	36.57
1878.....	48.29	29.11	28.07	40.90	50.55	54.57	64.08	73.04	70.15	63.15	48.33	36.29	21.29
1879.....	46.88	19.19	20.40	33.19	44.84	58.76	66.02	74.03	70.00	56.21	57.28	38.22	27.46
1880.....	47.28	37.10	29.19	35.50	45.87	64.30	67.60	68.04	68.58	55.83	46.23	27.52	22.07
1881.....	48.73	16.98	21.58	30.28	45.59	65.24	64.31	73.43	72.69	69.69	52.51	38.20	34.31
1882.....	47.57	24.89	35.12	35.96	44.70	52.73	65.49	67.71	69.52	59.98	52.67	38.30	24.80
Av. for 10 Years. <sup>a</sup>	46.73	23.20	24.70	31.77	44.30	58.92	67.04	71.27	69.53	60.12	48.83	34.46	26.98

<sup>a</sup> Average for 10 years ending with 1882.

**EXHIBIT 11.—ABSOLUTE HUMIDITY.**—*Grains of Vapor in a Cubic Foot of Air, by Months, for the Years 1873 to 1882, inclusive, at the Agricultural College, near Lansing, Michigan.*

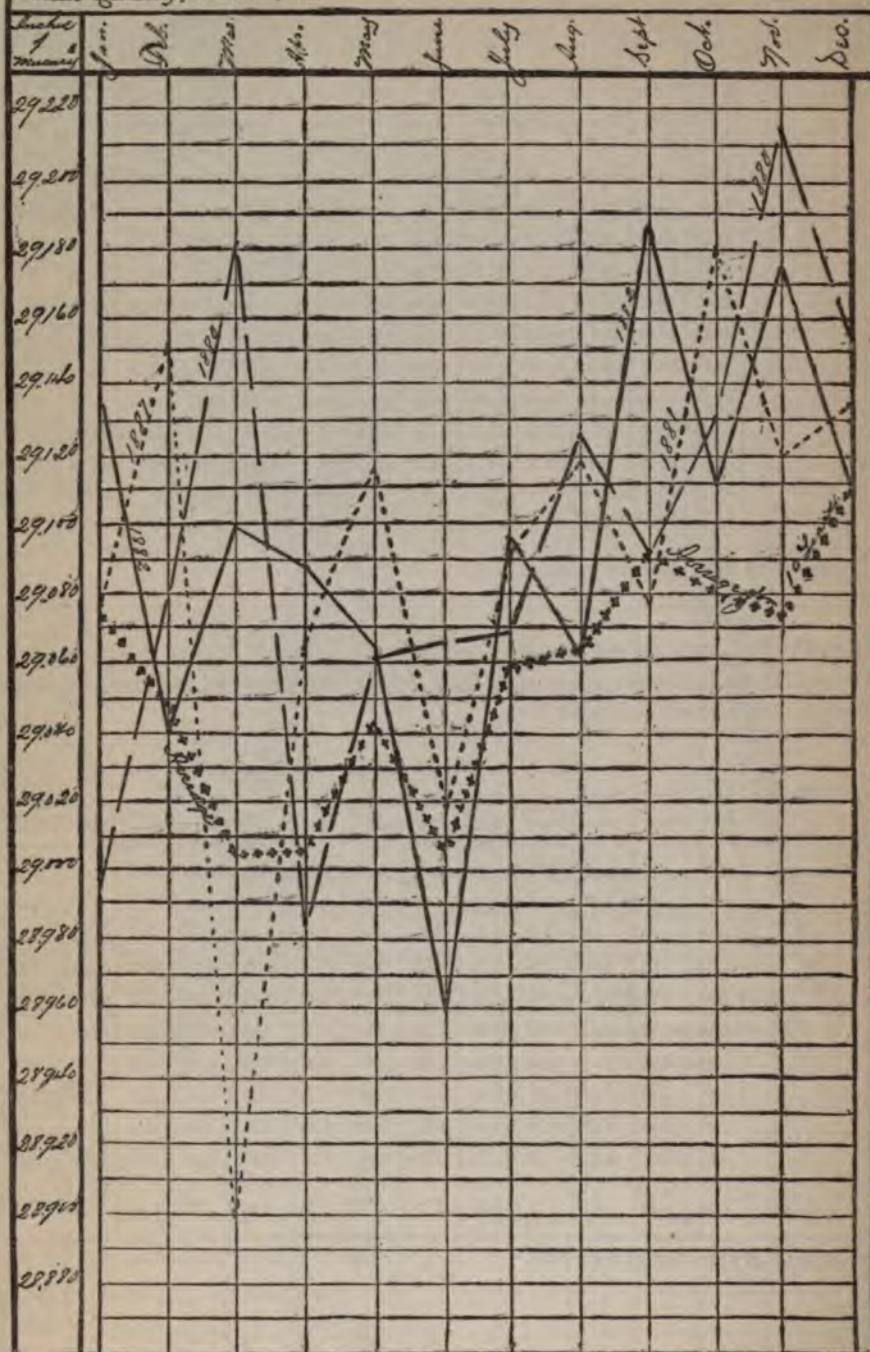
YEARS.	Annual Average.	GRAINS OF VAPOR IN CUBIC FOOT OF AIR, BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1873.....	3.36	1.14	1.43	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.92	1.73	1.82
1874.....	3.36	1.58	1.55	2.00	2.08	3.77	6.07	6.00	5.75	4.72	3.15	2.06	1.55
1875.....	3.11	0.92	0.73	1.63	2.12	3.74	5.17	5.91	5.22	4.38	2.57	1.84	2.05
1876.....	3.40	1.88	1.57	1.78	2.26	3.93	5.95	6.76	6.31	4.43	2.56	2.26	1.09
1877.....	3.45	1.19	1.85	1.53	2.47	3.79	5.32	5.76	5.74	4.82	3.59	2.22	2.39
1878.....	3.69	1.82	1.91	2.80	3.51	3.68	5.05	6.83	6.66	5.18	3.38	2.44	1.62
1879.....	3.43	1.31	1.23	1.93	2.84	3.94	5.09	6.30	5.53	4.40	4.61	2.46	1.70
1880.....	3.71	2.22	1.92	1.97	3.02	5.02	6.03	6.20	6.32	4.98	3.31	1.93	1.59
1881.....	3.78	1.08	1.66	1.93	2.65	5.21	5.40	6.65	6.00	5.86	4.13	2.47	2.22
1882.....	3.60	1.72	2.11	2.18	2.72	3.48	5.51	5.57	6.63	5.04	4.00	2.47	1.74
Av. for 10 years. <sup>a</sup>	3.49	1.49	1.60	1.93	2.62	4.06	5.54	6.24	6.00	4.83	3.42	2.19	1.78

<sup>a</sup> Average for 10 years ending with 1882.



# Diagram No. 5.

Atmospheric Pressure, by barometer, for the years 1880, 1881 and 1882 and the average for 11 years ending with 1882 at the Agricultural College near Lansing, Michigan.



\* Scale = .005 to the inch.

**EXHIBIT 12.—PRESSURE OF THE ATMOSPHERE.**—*Observations of Barometer reduced to freezing point, and corrected for Instrumental error (+.12) previous to 1876, for each of the years 1873 to 1882, inclusive, and the Average for 10 Years ending with 1882, at the Agricultural College, near Lansing, Michigan. (Based upon Observations by Prof. R. C. Kedzie.)*

YEARS.	Annual Average.	PRESSURE OF THE ATMOSPHERE, STATED IN INCHES OF MERCURIAL COLUMN, BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1873.....	28.994	28.993	28.967	28.972	28.918	28.946	28.960	29.034	29.047	29.046	29.037	28.953	29.049
1874.....	29.055	29.168	29.048	29.015	29.061	28.984	28.998	29.027	29.044	29.066	29.073	29.067	29.121
1875.....	28.998	29.005	28.875	28.844	29.047	29.061	29.029	29.044	29.025	29.031	29.016	29.054	28.965
1876.....	29.010	29.073	29.063	28.929	29.000	29.009	28.911	29.009	29.048	28.995	28.929	28.963	29.203
1877.....	29.066	29.057	29.124	28.981	28.974	29.056	29.020	29.062	29.046	29.121	29.077	29.099	29.180
1878.....	29.053	29.099	29.026	29.027	28.875	29.013	29.030	29.085	29.010	29.157	29.080	29.081	29.147
1879.....	29.080	29.130	29.107	29.102	29.050	29.116	29.073	29.057	29.100	29.152	29.160	29.027	29.082
1880.....	29.086	28.995	29.077	29.181	28.984	29.061	29.065	29.068	29.126	29.093	29.130	29.215	29.155
1881.....	29.067	29.077	29.152	28.899	29.064	29.116	29.018	29.063	29.117	29.077	29.181	29.120	29.134
1882.....	29.084	29.134	29.041	29.098	29.083	29.065	28.959	29.096	29.062	29.186	29.112	29.175	29.112
Av..... <sup>a</sup>	29.053	29.073	29.048	29.005	29.006	29.043	29.006	29.058	29.063	29.063	29.080	29.073	29.109

<sup>a</sup> Average for 10 years ending with 1882.

TABLE XXX.—By Months, some Meteorological conditions at Certain Localities in Michigan during the Year 1882.

MONTHS, 1882.	ALPENA, MICH.				DETROIT, MICH.				GRAND HAVEN, MICH.				MARQUETTE, MICH.			
	Aver- age Bar- ometer.	Aver- age Temp., Fahr.	Total Rainfall in Inches.	Prevail- ing Winds.	Aver- age Bar- ometer.	Aver- age Temp., Fahr.	Total Rainfall in Inches.	Prevail- ing Winds.	Aver- age Bar- ometer.	Aver- age Temp., Fahr.	Total Rainfall in Inches.	Prevail- ing Winds.	Aver- age Bar- ometer.	Aver- age Temp., Fahr.	Total Rainfall in Inches.	Prevail- ing Winds.
YEAR, 1882 .....	29.360	42.63	45.10	W.	29.298	51.20	30.31	W.	29.354	48.18	42.16	N. E. & S.	29.283	42.28	37.08	N. W.
January .....	29.378	20.20	3.70	W.	29.387	31.00	1.97	W.	29.415	27.90	3.59	W.	29.292	20.80	1.10	W.
February .....	29.357	28.60	2.56	S. E. & W.	29.315	38.90	1.91	W.	29.328	35.90	3.09	E. & S.	29.210	28.10	3.41	S. W. & N. W.
March .....	29.378	27.80	4.62	N. W.	29.321	38.80	3.34	W.	29.358	35.30	5.85	N. W.	29.302	27.60	2.75	N. W.
April .....	29.385	36.70	2.65	N. W.	29.292	45.90	1.13	N. E. & W.	29.368	43.60	2.17	N. W.	29.364	36.50	2.48	N. W.
May .....	29.374	44.40	4.49	S. E.	29.225	53.20	4.62	N. E.	29.329	51.90	4.04	N. E.	29.318	46.00	2.88	N.
June .....	29.217	57.77	6.66	N. W.	29.103	67.20	3.70	S. W.	29.218	62.90	6.05	W.	29.178	56.50	2.69	N.
July .....	29.325	63.90	1.48	W.	29.241	70.10	1.65	S.	29.351	68.40	3.72	S.	29.247	62.90	2.76	W.
August .....	29.344	65.41	6.60	E.	29.220	71.30	4.43	N. E., E., & S.	29.322	68.90	2.77	N. E.	29.302	62.40	3.62	N. W. & N.
September .....	29.437	58.10	2.51	W.	29.311	64.20	1.77	E.	29.419	62.20	.81	N. E.	29.364	56.90	5.89	W.
October .....	29.357	50.20	3.12	W.	29.288	57.80	2.43	S.	29.343	54.70	4.62	N. E., E., & S. E.	29.226	50.10	5.84	S. & W.
November .....	29.437	35.40	4.27	W.	29.398	43.00	1.66	W.	29.433	40.40	2.49	N. E., E., & S. W.	29.362	35.40	1.61	W. & N.
December .....	29.331	24.20	2.44	W.	29.349	31.00	1.50	W.	29.360	28.20	2.76	S. W.	29.261	24.10	2.55	N. W.
Average Month .....	29.360	42.63	3.76	W.	29.298	51.20	2.53	W.	29.354	48.18	3.51	N. E. & S.	29.283	42.28	3.09	N. W.

## CAUSES OF DEATH,—ALL CAUSES.

277

EXHIBIT 14.—ALL CAUSES.—Deaths Returned as having occurred in Michigan from All Causes, by Months, during the Year 1882, and some coincident Meteorological conditions reported to the Office of the State Board of Health, by various Observers in the State.

MONTHS IN ORDER BY NUMBER OF REPORTED DEATHS FROM ALL CAUSES, GREATEST FIRST.	DEATHS REPORTED FROM ALL CAUSES, 1882.								TEMPERATURE, DEG. FAHR.	HUMIDITY OF ATMOSPHERE, ETC.—MONTHLY AVERAGES.	OZONE—RELATIVE, MAXIMUM = 10.	Average Velocity of Wind, Miles per Hour,—by Reck- toring Anemometer.	Rain and Meltd Snow, in Inches.	PRESSURE OF ATMOS- PHERE.—INCHES OF MERCURY (Reduced to 32° F.)		
	Number.				Per Cent of Total.									Range of Barometer.	Average Pressure.	
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.								
Year, 1882.....	16,347	8,663	7,638	46	100.00	100.00	100.00	100.00	47.14	76	3.48	3.41	3.50	37.25	1.461	29.138
December....	1,570	835	727	8	9.61	9.64	9.52	17.39	25.72	82	1.59	3.51	4.08	2.01	.997	29.135
September....	1,545	827	714	4	9.45	9.55	9.35	8.70	61.70	77	5.03	2.88	2.40	1.63	.757	29.202
October.....	1,498	789	706	3	9.17	9.11	9.24	6.52	53.53	76	3.95	3.13	2.72	8.6	.292	29.134
May.....	1,480	792	683	5	9.05	9.14	8.94	10.87	51.04	67	3.30	3.79	3.99	10.1	1.45	29.123
August.....	1,453	776	673	4	8.89	8.96	8.81	8.70	69.05	81	6.47	3.19	2.64	5.61	.525	29.112
November....	1,421	760	656	5	8.69	8.77	8.59	10.87	37.50	79	2.46	2.05	3.14	8.6	.224	29.224
March.....	1,372	715	654	3	8.39	8.25	8.56	6.52	34.12	77	2.06	3.74	4.61	11.8	1.06	29.149
Average.....	1,362	722	636	4	8.33	8.33	8.33	8.33	47.14	76	3.48	3.41	3.50	9.6	.310	29.138
April.....	1,311	685	624	2	8.02	7.91	8.17	4.35	42.65	68	2.59	3.85	3.99	11.1	1.217	29.153
July.....	1,284	683	596	5	7.86	7.88	7.60	10.87	67.84	70	5.52	2.94	2.67	8.5	.347	29.118
June.....	1,264	681	581	2	7.73	7.86	7.61	4.35	64.43	71	5.20	3.47	3.34	8.7	.540	29.061
February....	1,171	596	571	4	7.16	6.88	7.48	8.69	33.42	77	2.93	3.75	4.20	11.7	1.272	29.121
January.....	978	524	453	1	5.94	6.05	5.93	2.17	24.32	81	1.53	3.68	4.16	11.5	1.197	29.186
Less than the Av. No. of Deaths.																
More than the Av. No. of Deaths.																

<sup>a</sup> See foot-note to Exhibit K, page 278.  
<sup>b</sup> Excluding Deaths in unknown month.  
<sup>c</sup> Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average number of deaths occurred, and vice versa.  
<sup>d</sup> Exceptions to the proposition that the Average Daily Temperature was greater than the average number of deaths occurred, and vice versa.  
<sup>e</sup> Exceptions to the proposition that the Ozone was less than the average number of deaths occurred, and vice versa.  
<sup>f</sup> Exceptions to the proposition that the Rain-fall was less than the average number of deaths occurred, and vice versa.  
<sup>g</sup> Exceptions to the proposition that the Atmospheric Pressure, as indicated by the Barometer, was greater than the average in months when more than the average number of deaths occurred, and vice versa.



**EXHIBIT K.—CROUP.—Deaths Returned as having occurred in Michigan from Croup, by Months, during the Year 1882, and some coincident Meteorological conditions.**

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.	DEATHS FROM CROUP, 1882.		TEMPERA- TURE, DEGREES FAHR.		HUMIDITY OF ATMOS- PHERE, ETC., MONTHLY AVERAGES.				OZONE,— RELATIVE, MAXIMUM =10.		Average Velocity of Wind, Miles per Hour, by Registering Anemometer.	Rainfall in Inches.	Average Pressure of Atmosphere, (Barom- eter Reduced to 32° Fahr.)
	Number.	Per Cent of Total.	Av. Daily Range during Day and following Night, by Reg. Ther- mometers. Obs. at 7 A. M.	Av. of Daily Observations at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains, of Vapor in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Va- por Inhaled by one person in 24 hours. <sup>b</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. <sup>c</sup>	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			
Year, 1882.....	4340	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	29.138
More than the Av. No. of Deaths.													
December.....	53	15.19	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	2.01	29.135
November.....	49	14.04	13.51	37.90	79	2.46	1.54	10.14	2.95	3.14	8.6	2.24	29.224
January.....	44	12.61	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	1.97	29.186
May.....	32	9.17	19.55	* 51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	4.45	29.123
October.....	31	8.88	19.77	* 53.53	76	3.95	† 2.47	9.21	3.13	2.72	8.6	2.92	29.134
Average.....	29	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3.10	29.138
Less than the Av. No. of Deaths.													
March.....	24	6.88	15.89	* 34.12	77	2.06	† 1.29	10.39	3.74	4.61	11.8	3.66	29.145
April.....	23	6.59	19.08	* 42.65	68	2.59	† 1.62	10.06	3.85	3.99	11.1	2.17	29.155
September.....	22	6.30	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	1.63	29.205
February.....	21	6.02	16.52	* 33.42	77	2.03	† 1.27	10.41	3.75	4.20	11.7	2.72	29.115
June.....	19	5.44	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	5.40	29.005
July.....	19	5.44	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	2.47	29.115
August.....	12	3.44	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	5.61	29.115

<sup>a</sup> Calculated from readings of Dry Bulb and Wet Bulb Thermometers.

<sup>b</sup> Calculated for 18 respirations per minute, of 20 cubic inches of air each.

<sup>c</sup> Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 116.74 Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.

<sup>d</sup> Includes 46 deaths from Membranous Croup.

<sup>e</sup> Exceptions to the proposition that more than an average number of deaths from croup occurred in months when the Average Daily Temperature was less than the average, and vice versa.

<sup>f</sup> Exceptions to the proposition that more than an average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

**Croup.**—The number of fatal cases of croup was 349 in 1882, which is 31 less than in 1881, though still larger than for any other year, and 139 larger than the average for the fourteen years 1869–1882. There were 212 males and 137 females, which is a larger proportionate number of males than usual. The greatest mortality was in December, when there were 53 deaths; the fewest were only 12. 61.33 per cent of all the deaths occurred during the six cold months,—January, February, March, April, May, and June; against 38.67 per cent



in the six warm months. As regards age, it appears that 293 cases, or 83.95 per cent of the whole number, occurred among those under 5 years of age; 49, or 14.04 per cent of the whole, between 5 and 10 years.

Exhibit K shows certain meteorological data in connection with deaths from croup. There were five exceptions to the proposition that the air was *colder* than the average in months when the greatest number of deaths from croup occurred, and *warmer* than the average in months in which less than the average number of deaths occurred. There were also four exceptions to the proposition that more than the average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and *vice versa*.

EXHIBIT L.—CROUP AND DIPHThERIA.—Deaths Returned as having occurred in Michigan from Croup and Diphtheria, by Months during the Year 1882, and some coincident Meteorological conditions.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP AND DIPHThERIA, GREATEST FIRST.	DEATHS FROM CROUP AND DIPHThERIA, 1882.		TEMPERATURE, DEGREES FAHR.		HUMIDITY OF ATMOS- PHERE, ETC. MONTHLY AVERAGES.				OZONE, Relative. Maximum = 10.		Average Velocity of Wind, Miles Per Hour, by Registering Anemometer.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)
	Number.	Per Cent of Total.	Average Daily Range during Day and Night, by Reg. Thermometers, Observed at 7 A. M.	Average of Daily Observations at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight in Grains, of Vapor in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Inhaled by one Person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day—7 A. M. to 2 P. M.	Night—9 P. M. to 7 A. M.		
Year, 1882.....	1,760	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
More than the Av. No. of Deaths.												
Nov.....	241	13.69	13.51	37.90	79	2.46	1.54	10.14	2.95	3.14	8.6	29.224
Dec.....	203	11.53	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.135
Jan.....	165	9.38	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	29.186
Oct.....	163	9.26	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	29.134
Average.....	147	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
Less than the Average No. of Deaths.												
Feb.....	145	8.24	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
March.....	142	8.07	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	29.149
April.....	138	7.84	19.08	42.65	68	2.59	1.62	10.06	3.85	3.99	11.1	29.153
May.....	128	7.27	19.55	51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	29.123
Sept.....	116	6.59	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29.202
June.....	113	6.42	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	29.001
July.....	104	5.91	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.118
Aug.....	102	5.80	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	29.112

<sup>a</sup> See foot-note to Exhibit K, page 278.

<sup>b</sup> Excluding 5 deaths in unknown month.

<sup>c</sup> Exceptions to the proposition that *more* than an average number of deaths from croup and diphtheria occurred in months in which the Average Daily Temperature was *less* than the average, and *vice versa*.

<sup>d</sup> Exceptions to the proposition that *more* than an average number of deaths from croup and diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

*Croup and Diphtheria.*—The deaths from croup and diphtheria, for the year 1882, may be studied in connection with meteorological conditions in Exhibit L. The distinction between these two diseases has always been obscure, and they are considered by many to have pathological conditions in common, and for this reason the deaths from them are united. Allowance is thus made for incorrect diagnosis on the part of physicians, as it is quite likely that some deaths of children reported from diphtheria would have been more properly placed under croup, and *vice versa*.

The same propositions are made as in Exhibit K, and it will be seen that there are five exceptions to the proposition that *more* than the average number of deaths from croup and diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

*Diphtheria.*—The number of deaths from this cause in 1882, was 1,416, a decrease since last year of 647, when the percentage to all deaths was 10.72. This year the percentage is reduced to 8.62 per cent. The gradual rise of diphtheria through a series of years is a very interesting fact, made evident by registration. The number of fatal cases during the past ten years, 1873–1882, has been as follows:

1873	1874	1875	1876	1877	1878	1879	1880	1881	1882
217	213	207	311	393	887	1,473	1,542	2,063	1,416

We here observe a steady increase from 1875 to 1881, culminating in that year with 2,063 deaths. In 1882 there was quite a falling off in the mortality from diphtheria, it being less than for any year since 1878. The annual average number for the ten years 1873–1882, is 892, which is only five more than was returned in 1878. The annual average number for the last four years is 1,624.

With regard to the ages of those who died from diphtheria in 1882, we find by reference to Table XVII., page 228, that 613, or 43.29 per cent of the whole number, were children under five years of age, that 1,084, or 76.55 per cent were under 10 years of age, and that 1,301, or 91.88 per cent were under fifteen years of age. The first three and the last three months of the year contributed over 59 per cent of the deaths from diphtheria, but the last three months of the year constituted the most fatal season, the month of November having the largest mortality for the year. The autumn months are always the most fatal, and this may be due to the fact, as has been suggested in a previous report, that the public schools are opened about that time, and thus the disease is communicated from one to another. The fact that there are usually more deaths among females than among males from diphtheria has been previously observed, and the year 1882 is not an exception to the rule, there being 745 deaths among females against 671 deaths among males.

The prevalence of diphtheria in different parts of the State may be seen in the following table:

STATE, AND GEOGRAPHICAL DIVISIONS.	Total Mortality from all Causes.	Deaths from Diphtheria.	Per Cent of Deaths from Diphtheria to Deaths from all Causes.
State.....	16,425	1,416	8.62
Upper Peninsular.....	1,128	68	6.03
Northwestern.....	483	44	9.11
Northern.....	423	52	12.29
Northeastern.....	230	24	10.44
Western.....	2,007	193	9.62
Northern-Central.....	471	121	25.69
Bay and Eastern.....	2,506	215	8.58
Central.....	2,236	229	10.24
Southwestern.....	1,082	48	4.44
Southern-Central.....	2,405	96	3.99
Southeastern.....	3,364	326	9.69

The per cent of deaths from diphtheria to deaths from all causes is quite variable, ranging from 3.99 per cent in the southern-central to 25.69 per cent in the northern-central division. One fact is evident from the foregoing table, that diphtheria is very unequally distributed throughout Michigan. It seems to prevail the most among the northern counties and newly settled portions of the State.

From Exhibit M. it will be seen that the proposition that the air was *colder* than the average in months in which *more* than the average number of deaths occurred, and *warmer* than the average in months in which *less* than the average number of deaths occurred, holds true in ten out of the twelve months.

In the following table are exhibited the deaths from diphtheria, arranged by counties, with the per cent of deaths from this disease to deaths from all causes during the year 1882; also the number of deaths from diphtheria, by counties, for each of the years 1877-1882. In the counties, it prevailed in very different degrees, from .99 per cent of all causes in Keweenaw, where it prevailed the least, to 36.96 per cent in Kalkaska, where it was the most prevalent. The most noticeable decline in the number of deaths from diphtheria was in the counties of Kent, Mecosta, Montcalm, and Saginaw, while the county of Wayne showed a large increase over the previous year.

**EXHIBIT M.—DIPHTHERIA.—Deaths Returned as having occurred in Michigan from Diphtheria, by month, during the year 1882, and some coincident Meteorological conditions.**

MONTHS IN ORDER BY NUMBER OF DEATHS FROM DIPHTHERIA, GREATEST FIRST.	Deaths from Diphtheria, 1882.		Temperature,— Degrees Fahr.		Humidity of Atmosphere, Etc.,— Monthly Averages.				Ozone,— Relative Maximum = 10.		Average Velocity of Wind, Miles per hour,—by Registering Anemometer.	Average Pressure of Atmosphere. (Bar- ometer Reduced to 32° Fahrenheit.)	
	Number.	Per Cent. of Total.	Average Daily Range during Day and following Night by Registering Thermometers Observed at 7 A. M.	Average of Daily Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight in Grains, of Vapor, in a Cubic Foot of Air, <sup>a</sup>	Weight, in Troy Ounces, of Vapor, Inhaled by one per- son in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled. <sup>a</sup>	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			
Year, 1882.....	1,411	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138	
More than the Av- erage No. of Deaths.	November ..	192	13.61	13.51	37.90	79	2.46	1.54	10.14	2.95	3.14	8.6	29.224
	December ..	150	10.63	12.43	25.72	82	1.59	.99	10.09	3.51	4.08	10.1	29.135
	October .....	132	9.36	19.77	c 53.53	76	3.95	d 2.47	9.21	3.13	2.72	8.6	29.134
	February ....	124	8.79	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
	January .....	121	8.58	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	29.186
	March .....	118	8.36	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	29.149
Average .....	117	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138	
Less than the Aver- age No. of Deaths.	April .....	115	8.15	19.08	e 42.65	68	2.59	d 1.62	10.06	3.85	3.99	11.1	29.153
	May .....	96	6.80	19.35	51.04	67	3.30	d 2.06	9.62	3.79	3.99	10.1	29.123
	June .....	94	6.66	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	29.001
	September..	94	6.66	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29.203
	August .....	90	6.38	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	29.113
	July .....	85	6.02	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.118

<sup>a</sup> See foot-notes to Exhibit K, page 278.

<sup>b</sup> Excluding 5 in unknown month.

<sup>c</sup> Exceptions to the proposition that *more* than an average number of deaths from Diphtheria occurred in months when the Average Daily temperature was *less* than the average, and *vice versa*.

<sup>d</sup> Exceptions to the proposition that *more* than an average number of deaths from Diphtheria occurred in months when *less* than the average quantity of vapor was inhaled, and *vice versa*.

EXHIBIT 13.—Deaths from Diphtheria, by Counties, for each of the Years 1877-1882.

STATE AND COUNTIES.	1882.			1881.	1880.	1879.	1878.	1877.
	Deaths from all Causes.	Deaths from Diphthe- ria.	Per Ct. of Deaths from Diphtheria to Deaths from all Causes.					
State.....	16,425	1,416	8.62	2,063	1,542	1,473	887	593
Alcona.....	9	1	11.11	3	3	3	3	.....
Allegan.....	382	27	7.07	36	11	20	29	1
Alpena.....	87	6	6.90	3	.....	.....	.....	.....
Antrim.....	78	7	8.97	9	3	11	10	10
Baraga.....	41	7	17.07	.....	.....	.....	.....	.....
Barry.....	181	28	15.47	62	12	8	17	19
Bay.....	503	24	4.77	112	40	41	16	12
Benzie.....	54	1	1.85	1	2	4	.....	.....
Berrien.....	333	8	2.40	7	31	70	27	6
Branch.....	207	3	1.45	4	10	33	16	21
Calhoun.....	284	12	4.55	13	8	40	10	36
Cass.....	163	5	3.07	.....	9	47	47	4
Charlevoix.....	94	13	13.83	1	.....	1	.....	1
Cheboygan.....	78	9	11.54	10	3	1	20	8
Chippewa.....	80	11	13.75	.....	2	.....	.....	.....
Clare.....	41	13	31.71	13	42	2	.....	.....
Clinton.....	191	41	21.47	49	19	15	52	2
Crawford.....	15	.....	.....	5	.....	1	.....	.....
Delta.....	51	7	13.73	10	6	.....	.....	1
Eaton.....	202	4	1.98	36	18	30	47	12
Emmet.....	95	6	6.32	10	1	3	.....	.....
Genesee.....	341	31	9.09	56	38	17	17	29
Gladwin.....	6	.....	.....	.....	.....	7	.....	.....
Grand Traverse.....	44	4	9.09	18	6	2	6	26
Gratiot.....	166	18	10.84	23	31	31	18	21
Hillsdale.....	236	7	2.97	20	14	32	19	10
Houghton.....	250	17	6.80	3	.....	.....	1	.....
Huron.....	150	7	4.67	15	7	8	10	4
Ingham.....	240	29	11.65	29	14	56	9	2
Ionia.....	200	54	13.62	42	11	16	14	9
Iosco.....	55	9	16.36	57	1	4	2	1
Isabella.....	135	22	23.70	41	56	23	1	.....



EXHIBIT 13.—CONTINUED.—*Deaths from Diphtheria, by Counties.*

COUNTIES.	1882.			1881.	1880.	1879.	1878.	1877.
	Deaths from all Causes.	Deaths from Diphtheria.	Per Ct. of Deaths from Diphtheria to Deaths from all Causes.					
Jackson.....	356	22	6.18	26	5	26	84	58
Kalamazoo.....	338	23	6.80	77	13	22	17	20
Kalkaska.....	46	17	36.96	7	1	1	-----	-----
Kent.....	809	88	10.88	180	194	171	64	74
Keweenaw.....	101	1	.99	4	-----	-----	-----	-----
Lake.....	37	4	10.81	14	3	2	-----	-----
Lapeer.....	245	19	7.76	19	6	42	7	11
Leelanaw.....	39	1	2.56	10	13	-----	-----	-----
Lenawee.....	401	11	2.74	12	17	10	12	25
Livingston.....	178	4	2.25	17	19	22	5	2
Mackinac.....	18	-----	-----	-----	-----	-----	1	-----
Macomb.....	267	26	9.74	25	8	19	17	3
Manistee.....	219	16	7.31	4	2	4	1	-----
Manitou.....	11	2	18.18	-----	-----	-----	-----	-----
Marquette.....	419	19	4.53	19	7	5	10	-----
Mason.....	80	17	21.25	83	31	14	-----	1
Mecosta.....	193	69	35.75	134	60	18	2	1
Menominee.....	93	1	1.08	1	1	-----	-----	-----
Midland.....	87	6	6.90	10	28	5	8	2
Missaukee.....	32	4	12.50	1	-----	-----	1	-----
Monroe.....	302	23	7.61	12	20	14	17	8
Montcalm.....	278	14	5.04	69	80	11	6	8
Montmorency.....	2	-----	-----	-----	-----	-----	-----	-----
Muskegon.....	339	21	6.19	47	43	37	-----	2
Newaygo.....	131	13	9.92	41	60	8	5	3
Oakland.....	341	19	5.57	13	7	21	20	15
Oceana.....	137	11	8.03	27	13	13	1	-----
Ogemaw.....	32	8	25.00	-----	-----	-----	-----	-----
Ontonagon.....	36	-----	-----	1	-----	-----	-----	-----
Osceola.....	107	23	21.50	9	60	23	-----	-----
Oscoda.....	7	-----	-----	2	-----	-----	-----	-----
Otsego.....	17	-----	-----	2	1	2	2	-----
Ottawa.....	367	16	4.3	33	15	44	3	6
Presque Isle.....	38	-----	-----	3	-----	-----	-----	-----
Roscommon.....	9	1	11.11	-----	2	2	-----	-----

EXHIBIT 13.—CONTINUED.—Deaths from Diphtheria, by Counties.

COUNTIES.	1882.			1881.	1880.	1879.	1878.	1877.
	Deaths from all Causes.	Deaths from Diphtheria.	Per Ct. of Deaths from Diphtheria to Deaths from all Causes.					
Saginaw .....	848	65	7.67	103	148	157	52	19
Sanilac .....	193	10	5.18	23	3	10	12	17
Schoolcraft .....	39	5	12.82	-----	-----	-----	-----	-----
Shiawassee .....	160	6	3.75	12	13	8	11	1
St. Clair .....	405	57	14.07	39	43	7	22	13
St. Joseph .....	252	7	2.78	12	13	28	13	5
Tnscola .....	252	33	13.10	85	41	46	5	5
Van Buren .....	204	8	3.92	29	4	11	7	4
Washtenaw .....	351	11	3.13	16	9	10	4	1
Wayne .....	2,454	258	10.51	136	137	128	67	55
Wexford .....	84	16	19.05	9	24	6	20	-----
No. of Counties .....	-----	70	-----	68	62	61	52	46

EXHIBIT V.—CEREBRO-SPINAL MENINGITIS, ETC.—The Total Number of Deaths from Cerebro-Spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, Returned as having occurred in Michigan during the Year 1882, by Months, and by Sex.

CAUSES OF DEATH, 1882.		SEX.	YEAR, '82.	MONTHS, 1882.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Total.....	Total..		223	11	23	30	15	27	19	10	20	19	17	20	12
	Males..		115	4	13	13	9	19	8	4	10	12	6	10	7
	Fema's		108	7	10	17	6	8	11	6	10	7	11	10	5
Cerebro-Spinal Meningitis	Total..		24	3	4	4	1	2	2	1	-----	1	2	2	2
	Males..		14	-----	2	3	1	1	-----	1	-----	-----	2	2	2
	Fema's		10	3	2	1	-----	1	2	-----	-----	1	-----	-----	-----
Spotted Fever..	Total..		2	-----	1	-----	-----	-----	-----	-----	-----	-----	1	-----	-----
	Males..		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Fema's		2	-----	1	-----	-----	-----	-----	-----	-----	-----	1	-----	-----
Spinal Meningitis	Total..		84	1	7	15	4	11	6	3	9	6	6	8	8
	Males..		42	-----	4	7	2	9	2	-----	6	3	1	4	4
	Fema's		42	1	3	8	2	2	4	3	3	3	5	4	4
Meningitis	Total..		16	1	2	1	1	2	1	-----	1	4	1	2	-----
	Males..		7	1	1	-----	1	-----	-----	-----	-----	2	1	1	-----
	Fema's		9	-----	1	1	-----	2	1	-----	1	2	-----	1	-----
Spinal Fever..	Total..		97	6	9	10	9	12	10	6	10	8	7	8	2
	Males..		52	3	6	3	5	9	6	3	4	7	2	3	1
	Fema's		45	3	3	7	4	3	4	3	6	1	5	5	1

*Cerebro-Spinal Meningitis.*—In Exhibit V. are presented some of the important diseases of the brain and nervous system. The returns for 1882 show that 223 deaths occurred from these causes, of which 24 deaths were from cerebro-

spinal meningitis; 2 from spotted fever; 84 from spinal meningitis; 16 from meningitis; and 97 from spinal fever. The greatest mortality was in the month of March, and the least in July. The fatality fell most heavily upon the young, there being 121 deaths of children under five years of age, or 54.26 per cent of the whole number.

The relations of these diseases to atmospheric conditions may be studied in Exhibit 15.

**EXHIBIT 15.—CEREBRO-SPINAL MENINGITIS, ETC.—Deaths Returned as having occurred in Michigan from Cerebro-Spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, by Months, during the Year 1882, and some coincident Meteorological conditions.**

MONTHS IN ORDER BY NUM- BER OF DEATHS FROM CER- EBRO-SPINAL MENINGITIS, MEN- INGITIS, AND SPINAL FEVER, GREATEST FIRST.		Deaths from Cerebro- Spinal Men- ingitis, etc. 1882.		Temperature, Degrees Fahr.		Humidity of Atmosphere, etc.—Month- ly Averages.		Ozone— Relative. Maximum = 10.		Average Velocity of Wind, Miles per Hour,—by Registering anemometer.	Rain and Melted Snow, in Inches.	Pressure of Atmos- phere.—Inches of Mercury. (Reduced to 32° F.)		
		Number.	Per Cent of Total.	Av. Daily Range, during Day and Night, by Reg. Thermometers Observed at 7 A. M.	Average of Daily Obser- vations at 7 A. M., 9 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains of Vapor in a Cubic Foot of Air. <sup>a</sup>	Day—7 A. M. to 2 P. M.	Night—9 P. M. to 7 A. M.			Range of Barometer.		
												Monthly, and Year.	Average Daily.	Average Pressure.
Year, 1882.....	223	100.00	17.43	47.14	76	3.48	3.41	3.50	9.6	37.35	1.461	.211	29.138	
More than the Average No. of Deaths.	March..	30	13.45	b 15.89	c 34.12	d 77	e 2.06	f 3.74	f 4.61	11.8	3.66	1.299	.362	29.149
	May....	27	12.11	19.55	51.04	67	e 3.30	f 3.79	f 3.99	10.1	4.45	.810	.156	29.123
	Feb.....	23	10.31	b 16.52	c 33.42	d 77	e 2.03	f 3.75	f 4.20	11.7	2.72	1.346	.330	29.121
	Aug....	20	8.97	b 16.80	69.05	d 81	6.47	3.19	2.64	6.9	5.61	.525	.065	29.112
	Nov.....	20	8.97	b 13.51	c 37.90	d 79	e 2.46	2.95	3.14	8.6	2.24	.915	.189	29.224
	June....	19	8.52	20.33	64.43	71	5.20	f 3.47	3.34	8.7	5.40	.794	.163	29.001
	Sept....	19	8.52	19.31	61.70	d 77	5.03	2.88	2.40	7.5	1.63	.757	.148	29.202
Average.....	18	8.33	17.43	47.14	76	3.48	3.41	3.50	9.6	3.10	.915	.211	29.138	
Less than the Av. No. of Deaths.	Oct.....	17	7.62	b 19.77	c 53.53	76	e 3.95	f 3.13	f 2.72	8.6	2.92	.767	.200	29.124
	April....	15	6.73	b 19.08	42.65	d 68	2.59	3.85	3.90	11.1	2.17	1.053	.192	29.153
	Dec.....	12	5.38	12.43	25.72	82	1.59	3.51	4.08	10.1	2.01	.997	.225	29.125
	Jan.....	11	4.93	15.70	24.32	81	1.53	3.68	4.16	11.5	1.97	1.151	.338	29.188
	July....	10	4.49	b 20.25	c 67.84	d 70	e 5.52	f 2.94	f 2.67	8.5	2.47	.573	.123	29.118

<sup>a</sup> See foot-notes to Exhibit K, page 278.

<sup>b</sup> Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>c</sup> Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>d</sup> Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>e</sup> Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>f</sup> Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>g</sup> Exceptions to the proposition that the Atmospheric Pressure indicated by the barometer, was less than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT U.—CONGESTIVE CHILLS.—Deaths Returned as having occurred in Michigan from Congestive Chills by Months, during the Year 1882, and some coincident Meteorological conditions.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CON- GESTIVE CHILLS, GREATEST FIRST.	Deaths from Congestive Chills, 1882.		Tempera- ture, De- grees Fahr.	Humidity of Atmosphere, Etc.—Monthly Average.				Ozone,—Rel- ative Max- imum=10.		Average Velocity of Wind, Miles per hour, by Registering Anemometer.	Rain and Melted Snow, in Inches.	Pressure of Atmos- phere. Inches of Mer- cury. (Reduced to 32° F.)				
	Number.	Per Cent. of Total.		Av. Daily Range during Day and following Night, by Registering Thermometers, observed at 7 a. m. Average of Daily Observations at 7 a. m., 2 p. m., and 9 p. m.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor exhaled from air passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day,—7 a. m. to 2 p. m.			Night,—9 p. m. to 7 a. m.	Monthly and Year.	Average Daily.	Average Pressure.	
Year, 1882.	48	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.138	
Large No. of Deaths.	Apr..	11	22.92	19.08	68	2.59	1.62	10.06	3.85	3.09	11.1	2.17	1.053	g.192	29.153	
	Jan..	7	14.58	15.70	81	1.53	.96	10.72	3.68	4.16	11.5	1.97	1.151	.338	29.186	
	Aug..	4	8.33	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	5.61	f.525	g.005	h.29.112
	Sep..	4	8.33	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	1.63	f.737	g.148	29.202
	Oct..	4	8.33	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	2.92	f.767	g.200	h.29.134
	Nov..	4	8.33	13.51	37.90	79	2.46	1.54	10.14	2.95	3.14	8.6	2.24	.915	g.189	29.224
Average ..	4	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3.10	.915	.211	29.138	
Small No. of Deaths.	Feb..	3	6.25	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	f.1.346	g.330	29.121
	July.	3	6.25	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	2.47	.573	.123	29.118
	Mar..	2	4.17	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	3.66	f.1.292	g.362	h.29.149
	May.	2	4.17	19.55	61.04	67	3.30	2.06	9.62	3.79	3.99	10.1	4.45	.810	.158	29.123
	June.	2	4.17	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	5.40	.794	.163	29.001
	Dec..	2	4.17	12.43	25.72	82	1.59	.99	10.60	3.51	4.08	10.1	2.01	f.997	g.225	29.135

<sup>a</sup> See footnotes to Exhibit K, page 278.

<sup>b</sup> Exceptions to the proposition that the Average Daily Range of Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

<sup>c</sup> Exceptions to the proposition that the Average Daily Temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

<sup>d</sup> Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

<sup>e</sup> Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

<sup>f</sup> Exceptions to the proposition that the Monthly Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

<sup>g</sup> Exceptions to the proposition that the Average Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

<sup>h</sup> Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

*Congestive Chills.*—There were 48 deaths returned from congestive chills in 1882, which is a smaller number than was returned in any previous year. The average annual number of deaths from this cause, for the fourteen years 1869–1882, was 78. The greatest mortality in 1882 occurred in April, and the least in December. It is a disease occurring at all ages of life, but is especially fatal among those under five.

The relation between deaths from congestive chills and certain meteorological conditions may be seen in Exhibit U.

*Intermittent Fever.*—The malarial fevers, which under various names have been so widely extended in our Western States, seem to be growing less fatal in Michigan. This is without doubt largely the result of the great advance in sanitary knowledge in the past few years. The number of fatal cases returned from this cause was 34, being 11 less than for 1881. The average annual number for the fourteen years 1869–1882 was 49. The deaths in the spring months were in the majority, and also those aged under five.

As may be seen in Exhibit W, page 289, there are only three exceptions to the proposition that the Average Daily Temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

*Typhoid Fever.*—Two hundred and sixty-nine males and 193 females died from this disease in 1882, the whole number being little more than half as many as in 1881, and less than in any year since 1879. The average annual number of deaths for the fourteen years 1869–1882, was 512, which was 49 more than was returned in 1882. The per cent of mortality from typhoid fever to deaths from all causes, in 1882, was 2.82; this is considerably less than the average percentage for the years 1869–1882, which was 3.89. The present year was, therefore, exceptionally favorable as to mortality from typhoid fever. Nearly 42 per cent of the deaths were of persons between 15 and 30 years of age, and 35 per cent of the deaths were between 15 to 25. During the months of September, October, and November, 42.52 per cent of the deaths from this disease occurred, and nearly 20 per cent of the entire mortality was in the month of October alone. This disease has been well named "autumnal fever."

By an examination of Table XXI., it will be seen that typhoid fever was most fatal in the sparsely settled divisions of the State. The Upper Peninsular, Northern, and Northern-Central Divisions had the largest death-rates from this disease. The comparative newness of these sections renders it probable that the sanitary conditions are not as perfect there as in the more populous southern divisions.

Exhibit X, page 290, shows the relation of typhoid fever to certain atmospheric conditions.



EXHIBIT W.—INTERMITTENT FEVER.—Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1882, and some coincident Meteorological conditions.

MONTHS IN ORDER BY NUM- BER OF DEATHS FROM INTERMIT- TENT FEVER. GREATEST FIRST.	Deaths from Inter- mittent Fever, 1882.		Temperature Degrees Fahr.		Humidity of Atmos- phere, etc.—Monthly Averages.				Ozone— Relative. Maximum = 10.		Average Velocity of Wind, Miles per Hour, by Registering Anemometer.	Rain and Melted Snow, in Inches.	Pressure of Atmos- phere, Inches of Mercury. (Reduced to 32° F.)			
	Number.	Per Cent of Total.	Average Daily Range during Day and following Night, by Register- ing Therm. Obs. at 7 A. M.	Average of Daily Observations at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains, of Vapor in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Inhaled by One person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day—7 A. M. to 2 P. M.	Night—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.	Average Pressure.	
Year, 1882.	34	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.138	
More than the Av. No. of Deaths.	June.	5	14.71	20.33	64.43	71	5.20	3.25	8.43	* 3.47	3.34	8.7	5.40	.794	.163	† 29.001
	April.	4	11.77	19.08	† 42.65	68	† 2.59	1.62	10.06	* 3.85	* 3.90	11.1	2.17	1.053	.192	29.153
	May.	4	11.77	19.55	51.04	67	† 3.30	2.06	9.62	* 3.79	* 3.99	10.1	4.45	.810	.158	† 29.123
	July.	4	11.77	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	2.47	.573	.123	† 29.118
	Oct.	4	11.76	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	2.92	.767	.200	† 29.134
Average....	3.1	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3.10	.915	.211	29.138	
Less than the Average No. of Deaths.	Jan.	3	8.82	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	1.07	1.151	.338	† 29.186
	Mar.	3	8.82	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	3.66	1.292	.362	† 29.149
	Aug.	3	8.82	16.80	† 69.05	81	† 6.47	4.04	7.64	* 3.19	* 2.64	6.9	5.61	.525	.065	29.112
	Dec.	2	5.88	12.43	25.72	82	1.59	.90	10.60	3.51	4.06	10.1	2.01	.997	.225	29.135
	Sept.	1	2.94	19.31	† 61.70	77	† 5.03	3.14	8.54	* 2.88	* 2.40	7.5	1.63	.757	.148	† 29.202
	Nov.	1	2.94	13.51	37.90	79	2.46	1.54	10.14	* 2.95	* 3.14	8.6	2.24	.915	.189	† 29.224
	Feb.	0	-----	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	1.346	.330	29.121

<sup>a</sup> See footnotes to Exhibit K, page 278.

<sup>b</sup> Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>c</sup> Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>d</sup> Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>e</sup> Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>f</sup> Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

**EXHIBIT X.—TYPHOID FEVER.—Deaths Returned as having occurred in Michigan from Typhoid Fever, by months, during the Year 1882, and some coincident Meteorological conditions.**

MONTHS IN ORDER BY NUMBER OF DEATHS FROM TYPHOID FEVER, GREATEST FIRST.	Deaths from Typhoid Fever, 1882.		Tempera- ture,—De- grees Fahr.	Humidity of Atmos- phere, Etc.,—Monthly Averages.				Ozone,— Relative Maximum =10.		Average Velocity of Wind, Miles per hour.— by Registering Anemometer.	Rain and Melted Snow, in Inches.	Pressure of Atmos- phere. Inches of Mercury. (Reduced to 32° F.)				
	Number.	Per Cent. of Total.	Av. Daily Range during Day and following Night by Registering Thermometers. Observed at 7 A. M.	Average of Daily Observations at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor, in a Cubic foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day,—7 A. M. to 2 P. M.			Night,—9 P. M. to 7 A. M.	Monthly and Year.	Average Daily.	Average Pressure.	
Year, 1882.	461	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.138	
More than Av. No. of Deaths.	Oct. .	91	19.74	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	2.92	f .767	g .200	h 29.134
	Nov. .	53	11.50	b 13.51	c 37.90	79	d 2.46	1.54	10.14	2.95	3.14	8.6	2.24	.915	g .189	h 29.224
	Sep. .	52	11.28	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	1.63	f .757	g .148	h 29.202
	Dec. .	40	8.68	b 12.43	c 25.72	82	d 1.59	.99	10.69	e 3.51	e 4.08	10.1	2.01	.997	.225	h 29.135
Average ..	38	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3.10	.915	.211	29.138	
Less than the Average Number of Deaths.	May .	35	7.59	b 19.55	c 51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	4.45	.810	.158	h 29.125
	Feb. .	34	7.37	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	f 1.346	g .350	h 29.121
	Jan. .	31	6.72	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	1.97	f 1.151	g .338	h 29.186
	Mar. .	30	6.51	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	3.66	f 1.292	g .362	h 29.146
	June	30	6.51	b 20.33	c 64.43	71	d 5.20	3.25	8.43	3.47	e 3.34	8.7	5.40	.794	.163	h 29.001
	Aug. .	27	5.86	16.80	c 69.05	81	d 6.47	4.04	7.64	e 3.19	e 2.64	6.9	5.61	.525	.095	h 29.112
	July	20	4.34	b 20.25	c 67.84	70	d 5.52	3.45	8.23	e 2.94	e 2.67	8.5	2.47	.573	.123	h 29.115
April	18	3.90	b 19.08	42.65	68	2.59	1.62	10.06	3.85	3.99	11.1	2.17	f 1.053	.192	h 29.155	

<sup>a</sup> See foot-note to Exhibit K, page 278.

<sup>b</sup> Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>c</sup> Exceptions to the proposition that the Average Daily Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>d</sup> Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>e</sup> Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>f</sup> Exceptions to the proposition that the Monthly Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>g</sup> Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

<sup>h</sup> Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

*Dysentery.*—The mortality from this disease was less in 1882 than for any previous year, the number of deaths returned being only 96, while in 1881 there were 270, a decrease of 174. The average annual mortality for the fourteen years 1869–1882, was 233, which is 137 more than was reported in 1882. Over two-thirds, or 68.75 per cent of the deaths from dysentery occurred in July, August, and September; and 76.04 per cent of the decedents were under five years of age.

Table XXI. shows the geographical distribution of dysentery, where it appears that the disease prevailed the most in the Upper Peninsular and North-eastern divisions.

TABLE XXI.—DIARRHEA AND DYSENTERY.—*Exhibiting, for the State and for Eleven Geographical Divisions of the State, the Number of Deaths Returned as having occurred from Diarrhea and Dysentery, and from Typhoid Fever, and the Per Cent of Deaths from each Disease to Deaths from All Causes, during the Year 1882.*

STATE AND GEOGRAPHICAL DIVISIONS. <sup>a</sup>	DIARRHEA, 1882. ACUTE AND CHRONIC.		DYSENTERY, 1882. ACUTE AND CHRONIC.		TYPHOID FEVER, 1882.	
	Number of Deaths, 1882.	Per Cent to Deaths from All Causes, by Geograph- ical Divis- ions.	Number of Deaths, 1882.	Per Cent to Deaths from All Causes, by Geogr- ph- ical Divis- ions.	Number of Deaths, 1882.	Per Cent to Deaths from All Causes, by Geograph- ical Divis- ions.
State .....	259	1.58	96	.58	463	2.82
Upper Peninsular.....	36	3.19	15	1.33	55	4.88
Northwestern.....	7	1.45	1	.21	17	3.52
Northern .....	1	.24	5	1.18	20	4.73
Northeastern.....	3	1.30	3	1.30	1	.43
Western .....	60	2.99	20	.95	57	2.84
Northern-central .....	3	.64	1	.21	21	4.46
Bay and Eastern.....	51	1.96	19	.73	67	2.58
Central .....	9	.40	11	.49	72	3.22
Southwestern .....	5	.46	5	.46	33	3.05
Southern-central.....	11	.46	8	.33	36	2.33
Southeastern.....	73	2.11	8	.24	64	1.90

<sup>a</sup> For counties included in each division, see page 184.



EXHIBIT 16.—DIARRHEA.—Deaths Returned as having occurred in Michigan from Diarrhea, by Months, during the Year 1882, and some coincident Meteorological conditions, reported to the Office of the State Board of Health, by various Observers in the State.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM DIARRHEA, GREATEST FIRST.	Deaths from Diarrhea, 1882.		Temperature, Degrees Fahr.		Inches of Rain and Melted Snow.	Humidity of Atmosphere. Av. of Obs. at 7 A.M., 2 P.M., & 9 P.M. daily.		Ozone—Rela- tive. Scale of 10 Degrees of Color- ation.		Average Velocity of Wind, Miles per Hour,—by Registering Anemometer.	Pressure of Atmos- phere,—Inches of Mercury. (Reduced to 32° F.)			
	Number.	Per Cent of Total.	Av. Daily Range, during Day and Night, by Reg. Thermometers Observed at 7 A. M.	Average of Daily Obser- vations at 7 A. M., 2 P. M., and 9 P. M.		Relative Humidity, or Per Cent of Saturation.	Absolute Humidity,—Gra. of Vapor in a Cubic Foot of Air. <sup>a</sup>	Day Observation,—7 A. M. to 2 P. M.	Night Observation,—9 P. M. to 7 A. M.		Range of Barometer.		Average Pressure.	
											Monthly, and Year.	Av. Daily Range of Observations at 7 A. M., 2 P. M., and 9 P. M.		
Year, 1882....	259	100.00	17.43	47.14	37.25	76	3.48	3.41	3.50	9.6	1.461	.211	29.138	
More than Av. No. of Deaths.	Aug. ....	73	28.18	<sup>b</sup> 16.80	69.05	5.61	<sup>d</sup> 81	6.47	3.19	2.64	6.9	<sup>g</sup> .525	<sup>h</sup> .005	<sup>i</sup> 29.113
	Sept. ....	73	28.18	19.31	61.70	1.63	<sup>d</sup> 77	5.03	2.88	2.40	7.5	<sup>g</sup> .737	<sup>h</sup> .148	29.202
	July ....	33	12.74	20.25	67.84	2.47	70	5.32	2.94	2.67	8.5	<sup>g</sup> .573	<sup>h</sup> .123	<sup>i</sup> 29.118
	Oct. ....	26	10.04	19.77	53.53	2.02	76	3.95	3.13	2.72	8.6	<sup>g</sup> .767	<sup>h</sup> .200	<sup>i</sup> 29.134
Average.....	24	8.33	17.43	47.14	3.10	76	3.48	3.41	3.50	9.6	.915	.211	29.138	
Less than the Average Num- ber of Deaths.	June ...	15	5.79	<sup>b</sup> 20.33	<sup>c</sup> 64.43	5.40	<sup>d</sup> 71	<sup>e</sup> 5.20	3.47	<sup>f</sup> 3.34	8.7	.794	.163	29.001
	Nov. ....	11	4.25	13.51	57.00	2.24	79	2.46	<sup>f</sup> 2.95	<sup>f</sup> 3.14	8.6	.915	.189	<sup>i</sup> 29.224
	April ....	9	3.48	<sup>b</sup> 19.08	42.65	2.17	<sup>d</sup> 68	2.59	3.85	3.99	11.1	<sup>g</sup> 1.053	.192	<sup>i</sup> 29.153
	March....	6	2.32	15.89	34.12	3.66	77	2.06	3.74	4.61	11.8	<sup>g</sup> 1.292	<sup>h</sup> .362	<sup>i</sup> 29.140
	Dec. ....	6	2.32	12.43	25.72	2.01	82	1.59	3.51	4.08	10.1	<sup>g</sup> .997	<sup>h</sup> .225	29.135
	May ....	5	1.93	<sup>b</sup> 19.55	<sup>c</sup> 51.04	4.45	<sup>d</sup> 67	3.30	3.79	3.99	10.1	.810	.158	29.123
	Jan. ....	2	.77	15.70	24.32	1.97	81	1.53	3.68	4.16	11.5	<sup>g</sup> 1.151	<sup>h</sup> .338	<sup>i</sup> 29.186
Feb. ....	0	.....	16.52	33.42	2.72	77	2.03	3.75	4.20	11.7	<sup>g</sup> 1.346	<sup>h</sup> .330	29.121	

<sup>a</sup> See foot-notes to Exhibit K, page 278.

<sup>b</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Temperature was greater than the average, and vice versa.

<sup>c</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Temperature was higher than the average and vice versa.

<sup>d</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Relative Humidity of the Atmosphere was less than the average, and vice versa.

<sup>e</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Absolute Humidity of the Atmosphere was greater than the average and vice versa.

<sup>f</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Amount of Ozone in the Atmosphere was less than the average, and vice versa.

<sup>g</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Monthly Range of Barometer was greater than the average, and vice versa.

<sup>h</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Barometer was greater than the average, and vice versa.

<sup>i</sup> Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Pressure of the Atmosphere was greater than the average, and vice versa.

*Diarrhea.*—The returns for 1882 show a decided reduction in the mortality from this disease, there being 259 deaths, against 501 in 1881, and 310 in 1880. The annual average of mortality for the ten years 1873–1882, was 311, or 52 more than was recorded in 1882. Deaths were recorded in every month except February, but the months of July, August, and September contributed 69.10 per cent of the total mortality from this cause, the months of July and August standing at the head with an equal number of deaths. In regard to age, 87.64 per cent of the decedents from diarrhea were under five years of age. The excessive heat in summer has always been an important factor in causing deaths from diarrhea, and the diminished mortality in 1882 may be largely the result of the cool summer of that year.

Exhibit 16 shows the relation which the deaths from diarrhea sustain to certain meteorological conditions. It will be seen that there are only two exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the Average Daily Temperature was *higher* than the average, and *vice versa*.

*Rheumatism.*—During the year 1882, according to the returns, 94 deaths occurred from rheumatism in this State. This number is 18 less than in 1881, and 22 more than in 1880. The number includes all reported under the following specific terms: Rheumatism of heart, 21; inflammatory, 16; sciatic, 3; rheumatism, 56. Although the deaths from rheumatism are so few in comparison with deaths from some other diseases, still it is one of the principal causes of sickness in this State, and it is, therefore, desirable to get all the information possible concerning it. Deaths from rheumatism were reported in every month of the year 1882, but the largest mortality occurred in March, the total in that month being 12.77 per cent of the whole number from rheumatism for the year. During the last eight years, 1875–1882, the month of March has stood at the head of the list of months, in which there were deaths from rheumatism, four times, May twice, and June twice. In its relation to age, the mortality from this cause has been greatest among persons over 50 years of age.

Exhibit 18 shows the relation of deaths from rheumatism to certain atmospheric conditions. The proposition that the air contained *more* than the average amount of vapor of water in months when *more* than the average number of deaths from rheumatism occurred, and *vice versa*, had five exceptions in 1875, seven in 1876, six in 1877, six in 1878, six in 1879, two in 1880, three in 1881, and five in 1882.



EXHIBIT 18.—RHEUMATISM.—Deaths Returned as having occurred in Michigan from Rheumatism, by Months, during the Year 1882, and some coincident Meteorological conditions.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM RHEUMATISM,* GREATEST FIRST.	Deaths from Rheumatism, 1882.		Temperature,—Degrees Fahr.		Humidity of Atmosphere, Etc.,—Monthly Averages.				Ozone,—Relative Maximum =10.		Average Velocity of Wind, Miles per hour,—by Registering Anemometer.	Rain and Melted Snow, in Inches.	Pressure of Atmosphere. Inches of Mercury. (Reduced to 32° F.)			
	Number.*	Per Cent. of Total.	Av. Daily Range during Day and following Night by Registering Thermometers. Observed at 7 A. M.	Average of Daily Observations at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor, in a Cubic foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly and Year.	Average Daily.	Average Pressure.	
Year, 1882.	94	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.138	
More than the Av. No. of Deaths.	Mar...	12	12.77	15.89	34.12	77	b 2.06	1.29	10.39	c 3.74	c 4.61	11.8	3.66	1.292	.362	29.149
	June.	11	11.70	20.33	64.43	71	5.20	3.25	8.43	c 3.47	3.34	8.7	5.40	.794	.163	d 29.001
	Jan...	10	10.64	15.70	24.32	81	b 1.53	.96	10.72	c 3.68	c 4.16	11.5	1.97	1.151	.338	29.186
	July..	9 <sup>e</sup>	9.57	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	2.47	.573	.123	d 29.118
	Dec...	9	9.57	12.43	25.72	82	b 1.59	.99	10.69	c 3.51	c 4.08	10.1	2.01	.997	.225	d 29.135
	Aug...	8	8.51	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	5.61	.525	.095	d 29.112
Average ..	7.8	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3.10	.915	.211	29.138	
Less than the Average No. of Deaths.	Nov..	8	8.51	13.51	37.90	79	2.46	1.54	10.14	c 2.95	c 3.14	8.6	2.24	.915	.189	d 29.224
	May.	7	7.45	19.55	51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	4.45	.810	.158	29.123
	Sep..	7	7.45	19.31	61.70	77	b 5.03	3.14	8.54	c 2.88	c 2.40	7.5	1.63	.757	.148	d 29.202
	April	6	6.38	19.08	42.65	68	2.59	1.62	10.06	3.85	3.99	11.1	2.17	1.053	.192	d 29.153
	Feb..	4	4.26	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	1.346	.300	29.121
	(Oct...	3	3.19	10.77	53.53	76	b 3.95	2.47	9.21	c 3.13	c 2.73	8.6	2.92	.767	.209	29.134

\* Includes Rheumatism of Heart, Inflammatory, Sciatic, and Rheumatism.

<sup>a</sup> See foot-note to Exhibit K, page 278.

<sup>b</sup> Exceptions to the proposition that the Air contains *more* than the average amount of vapor of water in months when *more* than the average number of deaths from Rheumatism occurred, and *vice versa*.

<sup>c</sup> Exceptions to the proposition that there was *less* than the average Ozone in the Air in months when *more* than the average number of deaths from Rheumatism occurred, and *vice versa*.

<sup>d</sup> Exceptions to the proposition that the Atmospheric Pressure was *greater* than the average in months when *more* than the average number of deaths from Rheumatism occurred, and *vice versa*.

*Scarlet Fever.*—This disease prevailed during 1882 more extensively than usual, and furnished 3.60 per cent of all deaths, which was more than for any year since 1873. The average annual per cent of the whole number of deaths for the fourteen years 1869-1882, was 3.82, and the average annual number of deaths from scarlet fever for the same years was 486. The mortality for was 592. Most of the victims from scarlet fever were among young

children, as may be seen by reference to Table XVII., where 327, or 55.24 per cent of the deaths from this cause in 1882, are shown to be of persons under five years of age; 172, or 29.05 per cent, were between the ages of five and ten, and 571, or 96.45 per cent were under twenty years of age. As regards season of year, the greatest mortality was in the earlier and later months of the year, the disease subsiding during the summer. The most fatal month was November, and the least was July.

EXHIBIT Y.—SCARLET FEVER.—*Deaths Returned as having occurred in Michigan from Scarlet Fever, by Months, during the Year 1882, and some coincident Meteorological conditions.*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM SCARLET FEVER, GREATEST FIRST.		DEATHS FROM SCARLET FEVER, 1882.		TEMPERA- TURE, DEGREES FAHR.		HUMIDITY OF ATMOS- PHERE, ETC., MONTHLY AVERAGES.			OZONE,— RELATIVE, MAXIMUM =10.		Average Velocity of Wind, Miles per Hour, by Registering Anemometer.	Average Pressure of Atmosphere, (Barom- eter Reduced to 32° Fahr.)	
		Number.	Per Cent of Total.	Av. Daily Range during Day and following Night, by Reg. Ther- mometers. Obs. at 7 A. M.	Av. of Daily Observations at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains, of Vapor in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Va- por Inhaled by one person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day,—7 A. M. to 2 P. M.			Night,—9 P. M. to 7 A. M.
Year, 1882.....		*591	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
More than the Av. No. of Deaths.	November.....	67	11.34	13.51	37.90	79	2.46	1.54	10.14	2.95	3.14	8.6	29.224
	March.....	64	10.83	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	29.149
	December.....	59	9.98	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.135
	February.....	56	9.47	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
	October.....	54	9.14	19.77	b 53.53	76	c 3.95	2.47	9.21	3.13	2.72	8.6	29.134
	May.....	50	8.46	19.55	b 51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	29.123
Average.....		49	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
Less than the Av. No. of Deaths.	June.....	48	8.12	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	29.001
	January.....	43	7.28	15.70	b 24.32	81	e 1.53	.96	10.72	3.68	4.16	11.5	29.186
	September.....	41	6.94	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29.002
	August.....	39	6.60	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	29.112
	April.....	37	6.26	19.08	b 42.65	68	c 2.59	1.62	10.06	3.85	3.99	11.1	29.153
	July.....	33	5.58	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.118

\* Excluding 1 death in unknown month.

<sup>a</sup> See foot-notes to Exhibit E, page 278.

<sup>b</sup> Exceptions to the proposition that the Average Daily Temperature was lower than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

<sup>c</sup> Exceptions to the proposition that the Absolute Humidity of the Atmosphere was less than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.



Exhibit Y shows the relation of deaths from scarlet fever to certain meteorological conditions. The proposition that the Average Daily Temperature was *colder* than the average in months when *more* than the average number of deaths from scarlet fever occurred, and *vice versa*, holds true in eight out of the twelve months.

*Consumption.*—The number of deaths caused by consumption, in 1882, was 1,804. With the exception of the years 1880 and 1881, this number was larger than for any previous year. The mortality from consumption in 1881 was 1,954, the largest ever returned in the State, and the mortality in 1880 was 1,829. The average annual mortality from this cause for the fourteen years 1869–1882, was 1,567. The per cent of deaths from consumption to deaths from all causes is quite uniform from year to year, ranging from 10.15 per cent in 1873, to 13.48 per cent in 1869. The per cent in 1882 was 10.98, and the average for fourteen years, 1869–1882, was 11.96. These statistics are quite satisfactory, as they indicate that, although the deaths from consumption have advanced during these years, still, the increase has not been in proportion to the advance in population.

Of the 1,804 deaths from consumption, in 1882, 832 were males, and 972 were females. There were, therefore, 86 male decedents to 100 females, or 46.12 males, and 53.88 females in each 100 decedents. During the fourteen years from 1869 to 1882, inclusive, the number of deaths returned from consumption, in Michigan, was 21,932, of which 10,156 were males and 11,776 were females. There were 86 male decedents to each 100 female decedents, the same as in 1882, or 46.31 males, and 53.69 females in each 100 decedents.

The following tables show what influence the different months and seasons have in promoting the fatality of consumption. In 1882 the largest number of deaths from this cause occurred in May, and the largest quarterly period was in the second. Making the comparison by seasons, the deaths were in the following order: Spring, 521; autumn, 462; summer, 434; winter, 379.

The second table shows the total mortality from consumption for a period of fourteen years, 1869–1882. It is here seen that the largest monthly mortality was in December, and the largest quarterly mortality appears for the last quarter of the year.

In reference to age, the subject may be studied in the following tables. It will be noticed that the greatest mortality is between 20 and 30, and that the increase from five to 30 is quite rapid, then after 30 is a regular decrease of percentage through all the ages.

Exhibit O shows the relation of deaths from consumption to certain atmospheric conditions. The proposition that the Average Daily Temperature was *higher* than the average in months when *more* than the average number of deaths from consumption occurred, and *vice versa*, holds true in eight out of the twelve months.

*Mortality from Consumption by Months and Quarters, 1882.*

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Un- known.
Months.....	99	137	164	163	194	152	151	131	167	148	147	143	8.
Quarters.....	400			509			449			438			
Per cent.....	22.17			28.22			24.89			24.28			.44

*Total Mortality from Consumption by Sex, Months, and Age, 1869-1882.*

	SEX.		Total.	MONTHS.												Unknown.
	Males.	Females.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Males.....	10,156	-----	-----	581	680	900	964	948	807	786	858	922	839	834	1,000	37
Females.....	-----	11,776	-----	679	807	965	1,037	1,069	935	962	1,019	1,124	1,026	983	1,123	47
Totals.....	-----	-----	21,932	1,260	1,487	1,865	2,001	2,017	1,742	1,748	1,877	2,046	1,865	1,817	2,123	84
Quarters.....	-----	-----	-----	4,612			5,760			5,671			5,805			
Per Cent.....	-----	-----	-----	21.03			26.26			25.86			26.47			38

	AGE.											Unknown.
	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	
Males.....	759	140	156	579	2,210	1,686	1,333	1,132	1,157	671	110	173
Females.....	745	147	361	1,364	3,417	2,065	1,259	919	759	465	97	178
Totals.....	1,504	287	517	1,943	5,627	3,751	2,592	2,101	1,916	1,136	207	351
Per Cent.....	6.85	1.31	2.35	8.86	25.65	17.14	11.81	9.58	8.73	5.18	.94	1.60

*Mortality from Consumption by Sex and Age, 1882.*

AGES.	Total Deaths.	Deaths from Consumption.	Per Cent. at Several Ages.	Males.	Females.
Under 10.....	7,553	120	6.65	55	65
10 to 20.....	1,322	185	10.25	54	131
20 to 30.....	1,432	506	28.05	215	291
30 to 40.....	1,024	306	16.96	136	170
40 to 50.....	932	198	10.96	104	94
50 to 60.....	944	171	9.48	84	87
60 to 70.....	1,175	157	8.70	92	65
70 to 80.....	1,136	104	5.77	64	40
80 and over.....	639	20	1.11	8	12
Age not stated.....	268	37	2.05	20	17
Totals.....	16,425	1,804	100.00	832	972

**EXHIBIT N.—CONSUMPTION.**—*By Sex, the Number of Deaths Returned as having occurred in Michigan from Consumption during the Year 1882, by Months Equalized to Uniform length of 30.44 days each; also the Average Number per Month. (Deaths in unknown month excluded.)*

SEX.	Total.	DEATHS FROM CONSUMPTION IN 1882, BY MONTHS OF EQUAL LENGTH.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
Total.....	* 1,786	97	149	161	165	190	154	148	129	169	145	149	140	150
Males .....	827	44	73	80	79	94	71	63	65	63	59	65	73	69
Females .	969	53	76	81	86	96	83	85	64	106	86	84	68	81

\* Excluding 8 deaths from Consumption in unknown months,—5 males and 3 females.





EXHIBIT O.—CONSUMPTION.—Deaths from Consumption, Returned as having occurred in Michigan, by Months, during the Year 1882, and some coincident Meteorological conditions.

MONTHS  IN ORDER BY NUMBER OF DEATHS FROM CONSUMPTION, GREATEST FIRST.	DEATHS FROM CONSUMPTION, 1882.		TEMPERATURE, DEGREES FAHR.		HUMIDITY OF ATMOS- PHERE, ETC. MONTHLY AVERAGES.				OZONE, Relative. Maximum = 10.		Average Velocity of Wind, Miles Per Hour, by Registering Anemometer.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)	
	Number.	Per Cent of Total.	Average Daily Range dur- ing Day and foloing Night, by Reg. Thermometers, Observed at 7 A. M.	Average of Daily Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Por Cent of Saturation.	Weight in Grains of Vapor in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Inhaled by one Person in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. <sup>a</sup>	Day—7 A. M. to 2 P. M.	Night—9 P. M. to 7 A. M.			
Year, 1882.....	b 1,706	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138	
More than the Aver- age No. of Deaths.	May.....	194	10.80	19.55	51.04	67	3.30	d 2.06	9.62	3.79	3.99	10.1	29.123
	Sept.....	167	9.30	19.31	61.70	77	5.03	3.14	8.54	2.88	2.30	7.5	29.202
	March.....	164	9.13	15.89	c 34.12	77	2.06	j 1.29	10.39	3.74	4.61	11.8	29.149
	April.....	163	9.08	19.08	c 42.65	68	2.50	d 1.62	10.06	3.85	3.99	11.1	29.153
	June.....	152	8.46	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	29.001
	July.....	151	8.41	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.118
Average.....	150	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138	
Less than the Aver- age No. of Deaths.	Oct.....	148	8.24	19.77	c 53.53	76	3.95	d 2.47	9.21	3.13	2.72	8.6	29.134
	Nov.....	147	8.19	13.51	37.90	79	2.46	1.54	10.14	2.95	3.14	8.6	29.224
	Dec.....	143	7.96	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.135
	Feb.....	137	7.63	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
	Aug.....	131	7.29	16.80	c 69.05	81	6.47	d 4.04	7.64	3.19	2.64	6.9	29.112
	Jan.....	99	5.51	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	29.186

<sup>a</sup> See foot-notes to Exhibit K, page 278.

<sup>b</sup> Excluding 8 deaths in unknown month.

<sup>c</sup> Exceptions to the proposition that the Average Daily Temperature was *higher* than the average in months when *more* than the average number of deaths from Consumption occurred, and *vice versa*.

<sup>d</sup> Exceptions to the proposition that *more* than an average amount of vapor was inhaled in months in which there was *more* than the average number of deaths from Consumption, and *vice versa*.

*Pneumonia*.—This disease is reported to have caused the death of 735 persons in 1882; in 1881, there were 805 deaths, and in 1880, there were 813 deaths, the largest number ever returned in Michigan. The average annual number of deaths from pneumonia for the fourteen years 1869–1882, was 625. The percentage of deaths from pneumonia to deaths from all causes in 1882, was 4.47; this is less than the average percentage for fourteen years by .23 of one per cent, although not as much as the per cent in the year 1880, which was 5.04.

Of the 735 decedents from pneumonia in 1882, 403 were males, 330 were females, and 2 the sex was not reported. The proportions were 12½ males to each 100 females, and in every year there has been an excess of deaths among males from pneumonia.

In 1882, the mortality from this cause in the different quarters of the year was as follows:

	Number.	Per cent.
First quarter.....	208,	or 28.30
Second " .....	234,	or 31.84
Third " .....	94,	or 12.79
Fourth " .....	197,	or 26.80

The fatality by seasons stands thus:

Spring .....	260,	or 35.37
Summer .....	116,	or 15.78
Autumn.....	136,	or 18.50
Winter.....	221,	or 30.07

The last month of the year and the second quarter were the periods of greatest fatality, and the smallest number reported was in the months of July and August, and the third quarter of the year.

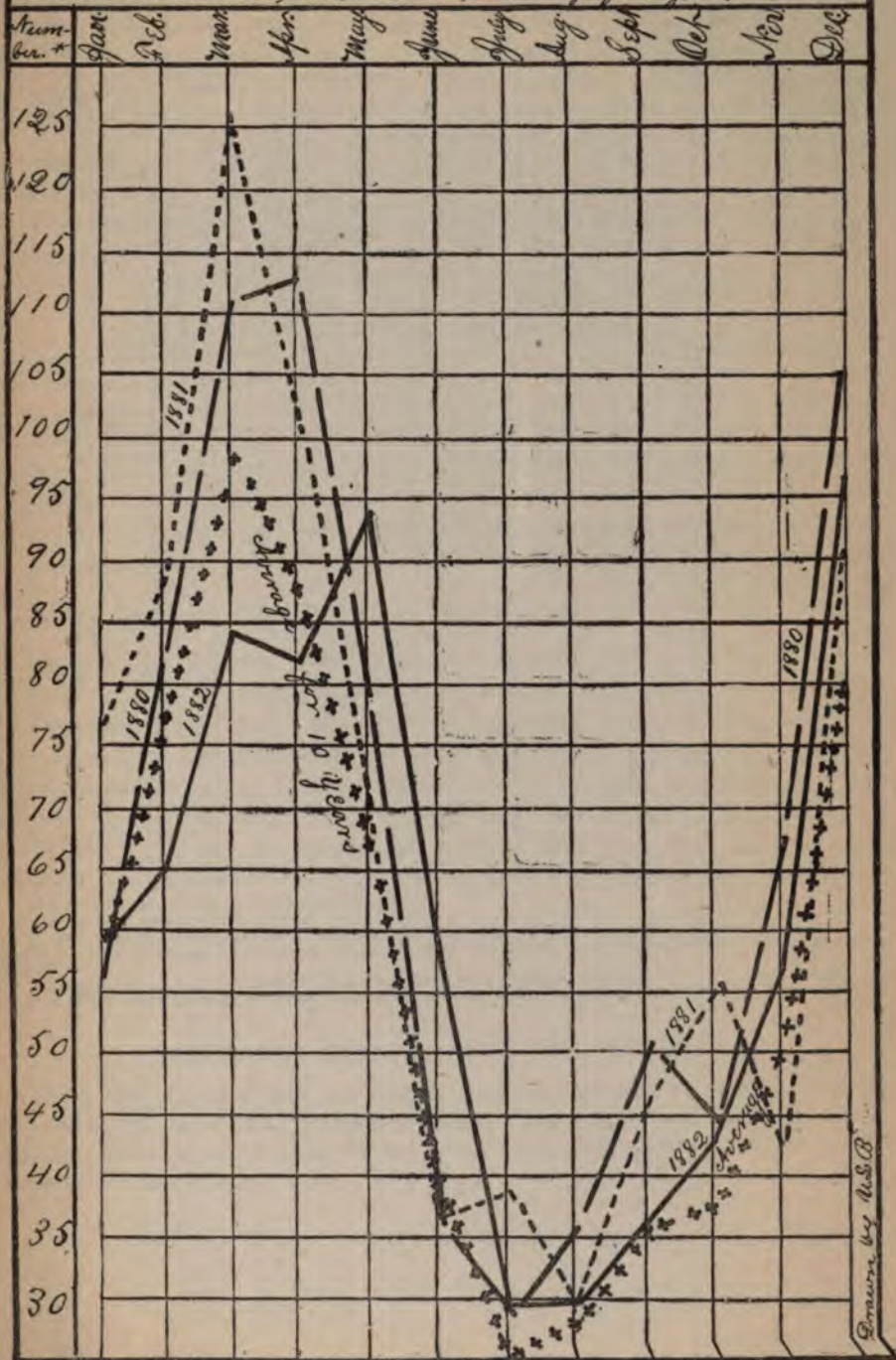
Three hundred and sixteen of the 735 deaths from pneumonia, or 42.99 per cent, were of children under five years of age. Two hundred, or 27.21 per cent of the entire mortality from this cause, were of persons over 50 years of age. The returns in Michigan for fourteen years show, as might be anticipated, when we consider the tenderness of youth and the frailty of those advanced in years, that while pneumonia attacks all ages, it is especially fatal at the extremes of life.

**EXHIBIT 17.—PNEUMONIA.—***By Months, the Number of Deaths Returned as having occurred from Pneumonia, in Michigan, during each of the Years 1873–1882, and the Average for Ten Years ending with 1882.*

YEARS.	Total.	DEATHS FROM PNEUMONIA, 1873–1882.												Unk.
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	
1873.....	706	84	110	80	58	65	55	20	29	34	37	65	68	1
1874.....	800	49	57	108	141	108	46	29	32	46	39	50	93	2
1875.....	745	85	116	128	88	73	36	21	17	31	42	41	65	2
1876.....	627	43	71	107	68	50	33	20	37	28	38	40	91	1
1877.....	465	58	56	64	60	39	24	14	23	26	26	35	38	2
1878.....	462	36	37	59	54	37	30	15	19	23	35	53	65	-----
1879.....	701	44	92	114	102	59	36	30	31	42	25	45	80	1
1880.....	812	56	82	111	113	79	37	29	36	51	44	68	106	1
1881.....	805	77	88	126	100	70	37	39	29	47	55	43	91	3
1882.....	735	50	65	84	82	94	58	29	29	36	43	57	97	2
Av. for 10 yrs	685	59	77	98	97	67	39	25	28	38	38	50	79	2

Diagram No. 7.

Deaths Returned as having Occurred in Michigan from  
Pneumonia in 1880, 1881, and 1882, and Average for 10 years, 1873-1882.



\* Scale  $1\frac{1}{2}$  to the inch.

Drawn by W.S.B.





EXHIBIT P.—PNEUMONIA.—Deaths Returned as having occurred from Pneumonia in Michigan, during the year 1882, and some coincident Meteorological conditions.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM PNEUMONIA, GREATEST FIRST.	Deaths from Pneumonia, 1882.		Temperature,— Degrees Fahr.		Humidity of Atmosphere, Etc.— Monthly Averages.				Ozone,— Relative Maximum =10.		Average Velocity of Wind, Miles per hour,—by Registering Anemometer.	Average Pressure of Atmosphere, (Bar- ometer Reduced to 32° Fahrenheit.)
	Number.	Per Cent. of Total.	Average Daily Range during Day and following Night by Registering Thermometers Observed at 7 A. M.	Average of Daily Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight in Grains, of Vapor, in a Cubic Foot of Air. <sup>a</sup>	Weight, in Troy Ounces, of Vapor, inhaled by one per- son in 24 hours. <sup>a</sup>	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled. <sup>a</sup>	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1882.....	<sup>b</sup> 733	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
More than the Av. No. of Deaths.												
December ..	97	13.23	12.43	25.72	82	1.59	.39	10.69	3.51	4.08	10.1	29.135
May .....	94	12.82	19.55	<sup>c</sup> 51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	29.123
March .....	81	11.46	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	29.149
April .....	82	11.19	19.08	42.65	68	2.50	1.62	10.06	3.85	3.99	11.1	29.153
February...	65	8.87	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
Average .....	61	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
Less than the Average No. of Deaths.												
January ....	59	8.05	15.70	<sup>c</sup> 24.32	81	1.53	<sup>d</sup> .96	10.72	3.68	4.16	11.5	29.186
June .....	58	7.91	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	29.001
November ..	57	7.77	13.51	<sup>c</sup> 37.90	79	2.46	<sup>d</sup> 1.54	10.14	2.95	3.14	8.6	29.224
October .....	43	5.87	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	29.134
September..	36	4.91	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29.202
July .....	29	3.96	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.118
August .....	29	3.96	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	29.112

<sup>a</sup> See foot-notes to Exhibit K, page 278.

<sup>b</sup> Excluding 2 in unknown month.

<sup>c</sup> Exceptions to the proposition that the Average Daily Temperature was *lower* than the average in months when *more* than an average number of deaths from Pneumonia occurred, and *vice versa*.

<sup>d</sup> Exceptions to the proposition that *less* than the average amount of vapor was inhaled in months when *more* than an average number of deaths from Pneumonia occurred, and *vice versa*.

CORRELATION OF CONSUMPTION AND PNEUMONIA.

These two diseases may be studied together by sex, by months, and by periods of age in the two following tables. The facts concerning these two diseases seem to show that deaths from them are most prevalent under opposite circumstances.

## VITAL STATISTICS OF MICHIGAN, 1882.

TABLE XXII.—CORRELATION OF CONSUMPTION AND PNEUMONIA.—Deaths returned as having occurred from Consumption and Pneumonia, in Michigan during the Year 1882, by Months, exhibiting the Total Number, Number of each Sex, Per Cent of Total, and Excess of each Sex.

MONTHS, 1882.	DEATHS FROM CONSUMPTION, 1882.										DEATHS FROM PNEUMONIA, 1882.									
	Number.					Per Cent of each Sex to Total of Both Sexes.					Number.					Per Cent of each Sex to Total of Both Sexes.				
	Males.	Fe. males.	Total.	Per Cent of Deaths in each Month to Total for Year.	Excess.	Males.	Fe. males.	Excess.	Per Cent of Deaths in each Month to Total for Year.	Males.	Fe. males.	Total.	Per Cent of Deaths in each Month to Total for Year.	Males.	Fe. males.	Total.	Per Cent of Deaths in each Month to Total for Year.	Males.	Fe. males.	Excess.
Year, 1882.....	833	972	1,804	100.00	46.13	53.86	7.76	403	330	733	100.00	54.93	45.02	9.96	.....	.....	.....	.....	.....	.....
January.....	45	54	99	5.49	43.45	54.55	4	9.10	38	21	59	8.03	64.41	35.59	28.82	d	.....	.....	.....	.....
February.....	67	70	137	7.59	48.91	51.09	d	2.18	35	29	65	8.84	54.69	45.31	9.38	d	.....	.....	.....	.....
March.....	81	83	164	9.09	49.39	50.61	d	1.22	43	41	84	11.43	51.19	48.81	2.38	d	.....	.....	.....	.....
April.....	78	85	163	9.04	47.85	52.15	d	4.30	48	34	82	11.16	58.54	41.46	17.08	d	.....	.....	.....	.....
May.....	96	98	194	10.75	49.48	50.52	d	1.04	50	44	94	12.79	53.19	46.81	6.38	d	.....	.....	.....	.....
June.....	70	82	152	8.43	46.05	53.95	d	7.90	30	27	58	7.89	52.63	47.37	5.26	d	.....	.....	.....	.....
July.....	64	87	151	8.37	42.38	57.62	d	15.24	15	14	29	3.94	51.72	48.28	3.44	d	.....	.....	.....	.....
August.....	66	65	131	7.26	50.38	49.62	.76	.....	18	11	29	3.95	62.07	37.93	24.14	.....	.....	.....	.....	.....
September.....	62	105	167	9.26	37.13	62.87	.....	25.74	18	18	36	4.90	50.00	50.00	.....	.....	.....	.....	.....	.....
October.....	60	88	148	8.20	40.54	59.46	d	18.92	22	21	43	5.85	51.16	48.84	2.32	d	.....	.....	.....	.....
November.....	64	83	147	8.15	43.54	56.46	d	12.92	31	26	57	7.75	54.39	45.61	8.78	d	.....	.....	.....	.....
December.....	74	69	143	7.93	51.75	48.25	3.50	.....	53	44	97	13.20	54.64	45.36	9.28	.....	.....	.....	.....	.....
Unknown.....	5	3	8	.44	62.50	37.50	25.00	.....	2	.....	2	.27	100.00	.....	.....	.....	.....	.....	.....	.....
Average.....	69	81	150	8.33	46.00	54.00	.....	.....	33	28	61	8.33	54.09	45.91	.....	.....	.....	.....	.....	.....

a Excluding deaths in unknown month. b Includes 2 unknown sex. c Less than the average number of deaths from Consumption, and more than the average number from Pneumonia, and vice versa. d Nine out of twelve months in which there was an excess of deaths of one sex from Consumption, and of the opposite sex from Pneumonia.

TABLE XXIII.—CORRELATION OF CONSUMPTION AND PNEUMONIA.—Exhibiting the Number and Per Cent of Deaths of each Sex, the difference between the Sexes, and the Per Cent of Total Deaths at each Period of Age from Consumption and Pneumonia in Michigan, during the Year 1882.

DEATHS FROM CONSUMPTION, 1882.															DEATHS FROM PNEUMONIA, 1882.														
NUMBER.					PER CENT OF THE SEXES.					NUMBER.					PER CENT OF THE SEXES.														
	Males.	Fe- males.	Total.	Per Ct. of Deaths at each Age to All Ages.	Males.	Fe- males.	Excess.		Males.	Fe- males.	Total.	Per Ct. of Deaths at each Age to All Ages.	Males.	Fe- males.	Excess.														
							Males.	Fe- males.																					
All Ages, 1882.....	882	972	1,854	100.00	46.12	53.88	7.76		403	330	*735	100.00	54.98	45.02	9.96														
Under 5.....	a 42	53	b 95	b 5.27	44.21	55.79	11.58		*164	150	b316	b42.69	52.23	47.77	4.46														
5 to 10.....	13	12	25	1.39	52.00	48.00	4.00		13	21	34	4.63	38.24	61.76	c														
10 to 15.....	10	29	39	2.16	25.64	74.36	48.72		6	8	14	1.91	42.86	57.14	14.28														
15 to 20.....	44	102	b 146	b 8.00	30.14	69.86	39.72		17	8	b 25	b 3.40	68.00	32.00	36.00														
20 to 25.....	a 120	157	b 277	b 15.35	43.32	56.68	13.36		a 19	17	b 36	b 4.90	52.78	47.22	5.56														
25 to 30.....	a 95	134	b 229	b 12.69	41.48	58.52	c		a 16	4	b 20	b 2.72	80.00	20.00	60.00														
30 to 35.....	a 64	100	b 164	b 9.00	39.02	60.98	c		a 9	3	b 12	b 1.63	75.00	25.00	50.00														
35 to 40.....	a 72	70	b 142	b 7.87	50.70	49.30	1.40		a 11	9	b 20	b 2.72	55.00	45.00	10.00														
40 to 45.....	a 51	53	b 104	b 5.77	49.04	50.96	1.92		a 13	10	b 23	b 3.13	56.52	43.48	13.04														
45 to 50.....	a 53	41	94	5.21	56.38	43.62	12.76		a 20	7	27	b 3.67	74.07	25.93	48.14														
50 to 55.....	a 51	46	97	5.38	52.58	47.42	5.16		a 20	9	29	3.95	68.97	31.03	37.94														
55 to 60.....	33	41	74	4.10	44.59	55.41	c		22	17	39	5.31	56.41	43.59	12.82														
60 to 65.....	a 51	32	83	4.60	61.45	38.55	22.90		a 14	19	33	4.49	42.42	57.58	c														
65 to 70.....	41	33	74	4.10	55.41	44.59	10.82		13	9	22	2.99	39.09	60.91	21.81														
70 to 75.....	40	24	64	3.55	62.50	37.50	c		21	19	40	5.44	52.50	47.50	5.00														
75 to 80.....	24	16	40	2.22	60.00	40.00	20.00		c	10	20	2.72	50.00	50.00	c														
80 and over.....	8	12	20	1.11	40.00	60.00	20.00		c	9	17	2.31	52.94	47.06	5.88														
Unknown.....	20	17	37	2.05	54.05	45.95	8.10		6	2	8	1.00	75.00	25.00	50.00														
Average..... <sup>d</sup>	48	56	104	5.76	46.15	53.85	7.76		23	19	43	5.85	54.76	45.24	9.52														

<sup>a</sup> More than the average number of deaths of males from Consumption, and less than the average number of deaths of males from Pneumonia, and vice versa.  
<sup>b</sup> More than an average number and per cent of deaths from Consumption, and less than an average number and per cent of deaths from Pneumonia, and vice versa.  
<sup>c</sup> More than an average proportion of males from Consumption, and less than average proportion of males from Pneumonia, and vice versa.  
<sup>d</sup> Of 17 periods of 5 years each, unknown ages excluded.

**TABLE XXIV.**—*Exhibiting, for the State and Eleven Geographical Divisions in 1882, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also, the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.	SEX.	Deaths from All Causes, 1882.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMIT- TENT FEVER.		DIARRHEA.	
			Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
STATE	Total.....	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	230	1.38
	Males.....	8,713	832	9.55	403	4.63	209	3.00	25	.29	144	1.65
	Females.....	7,664	972	12.68	330	4.31	193	2.52	9	.12	115	1.50
	Unknown.....	48	.....	.....	2	4.17	1	2.08	.....	.....	.....	.....
Upper Peninsular	Total.....	1,128	66	5.85	34	3.01	55	4.88	1	.00	36	3.19
	Males.....	634	34	5.36	18	2.84	36	5.68	1	.16	19	3.00
	Females.....	490	32	6.53	16	3.27	19	3.88	.....	.....	17	3.47
	Unknown.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northwestern	Total.....	483	29	6.00	20	4.14	17	3.52	.....	.....	7	1.45
	Males.....	279	17	6.09	13	4.66	9	3.23	.....	.....	4	1.43
	Females.....	200	12	6.00	7	3.50	8	4.00	.....	.....	3	1.50
	Unknown.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northern	Total.....	423	28	6.62	14	3.31	20	4.73	.....	.....	1	.24
	Males.....	217	12	5.53	8	3.69	14	6.45	.....	.....	1	.46
	Females.....	204	16	7.84	6	2.94	6	2.94	.....	.....	.....	.....
	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northeastern	Total.....	230	11	4.78	7	3.04	1	.43	.....	.....	3	1.30
	Males.....	126	3	2.38	6	4.76	.....	.....	.....	.....	1	.79
	Females.....	103	8	7.77	1	.97	1	.97	.....	.....	2	1.94
	Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Western	Total.....	2,007	203	10.11	100	4.98	57	2.84	7	.35	60	3.00
	Males.....	1,060	91	8.58	53	5.00	32	3.02	5	.47	34	3.31
	Females.....	939	112	11.93	47	5.01	25	2.66	2	.21	26	2.77
	Unknown.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northern Central	Total.....	471	48	10.19	19	4.03	21	4.46	2	.42	3	.64
	Males.....	256	22	8.59	11	4.30	16	6.25	2	.78	3	1.17
	Females.....	213	26	12.21	8	3.76	5	2.35	.....	.....	.....	.....
	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bay and Eastern	Total.....	2,506	262	10.09	136	5.24	67	2.58	7	.27	51	1.98
	Males.....	1,437	129	8.98	78	5.43	40	2.78	6	.42	26	1.81
	Females.....	1,152	133	11.55	58	5.03	26	2.26	1	.00	25	2.17
	Unknown.....	7	.....	.....	.....	.....	1	14.29	.....	.....	.....	.....

<sup>a</sup> For counties included in each division, see page 184.

<sup>b</sup> For counties and townships from which no returns of deaths for 1882 were received, see Exhibit H, page 159. For those in which no deaths occurred, see Exhibit I, page 160.

TABLE XXIV.—CONTINUED.

GEOGRAPHICAL DIVISIONS.*	SEX.	Deaths from All Causes, 1882.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
			Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
Central	Total.....	2,236	280	12.52	122	5.46	72	3.23	4	.18	9	.46
	Males.....	1,163	117	10.06	77	6.62	42	3.61	3	.26	6	.52
	Females..	1,067	163	15.28	45	4.23	30	2.81	1	.09	3	.28
	Unknown..	6	—	—	—	—	—	—	—	—	—	—
Southwestern	Total.....	1,082	152	14.06	57	5.27	33	3.06	1	.09	5	.46
	Males.....	557	71	12.75	24	4.31	15	2.69	1	.18	2	.34
	Females..	518	81	15.64	31	5.98	18	3.47	—	—	3	.56
	Unknown..	7	—	—	2	28.57	—	—	—	—	—	—
Southern Central	Total.....	2,405	325	13.51	112	4.66	56	2.33	5	.21	11	.46
	Males.....	1,242	146	11.76	59	4.75	26	2.09	3	.24	8	.64
	Females..	1,159	179	15.44	53	4.57	30	2.59	2	.17	3	.26
	Unknown..	4	—	—	—	—	—	—	—	—	—	—
Southeastern	Total.....	3,364	400	11.89	114	3.39	64	1.90	7	.21	73	2.17
	Males.....	1,742	190	10.91	56	3.21	39	2.24	4	.23	40	2.30
	Females..	1,619	210	12.97	58	3.58	25	1.54	3	.19	33	2.04
	Unknown..	3	—	—	—	—	—	—	—	—	—	—

\* For counties in each Division, see page 184.



TABLE XXV.—*Exhibiting, for the State, and by Counties, for the Year 1882, the Number of Deaths from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.*

STATE AND COUNTIES.	Deaths from All Causes, 1882.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
		Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
State.....	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	259	1.58
Alcona.....	9	.....	.....	.....	.....	.....	.....	.....	.....	1	11.11
Allegan.....	383	57	14.92	18	4.71	11	2.88	.....	.....	3	.79
Alpena.....	87	6	6.90	4	4.60	.....	.....	.....	.....	1	1.15
Antrim.....	78	3	3.85	1	1.28	8	10.26	.....	.....	.....	.....
Baraga.....	41	1	2.44	2	4.88	1	2.44	.....	.....	.....	.....
Barry.....	181	23	12.71	13	7.18	5	2.76	.....	.....	1	.55
Bay.....	503	65	12.92	24	4.77	16	3.18	2	.40	10	1.99
Benzie.....	54	6	11.11	.....	.....	1	1.85	.....	.....	.....	.....
Berrien.....	333	45	13.51	18	5.41	9	2.70	.....	.....	2	.60
Branch.....	207	23	11.11	12	5.80	7	3.38	.....	.....	.....	.....
Calhoun.....	264	37	14.02	9	3.41	4	1.52	.....	.....	.....	.....
Cass.....	163	25	15.34	9	5.52	5	3.07	.....	.....	.....	.....
Charlevoix.....	94	10	10.64	4	4.26	3	3.19	.....	.....	.....	.....
Cheboygan.....	78	6	7.69	1	1.28	4	5.13	.....	.....	1	1.28
Chippewa.....	80	14	17.50	.....	.....	6	7.50	.....	.....	3	3.75
Clare.....	41	3	7.32	1	2.44	1	2.44	.....	.....	.....	.....
Clinton.....	191	21	10.99	5	2.62	6	3.14	.....	.....	.....	.....
Crawford.....	15	.....	.....	.....	.....	1	6.67	.....	.....	.....	.....
Delta.....	51	4	7.84	1	1.96	1	1.96	1	1.96	.....	.....
Eaton.....	202	30	14.85	8	3.96	7	3.47	.....	.....	.....	.....
Emmet.....	95	6	6.32	5	5.26	1	1.05	.....	.....	.....	.....
Genesee.....	341	46	13.49	27	7.92	6	1.76	.....	.....	4	1.17
Gladwin.....	6	1	16.67	.....	.....	.....	.....	.....	.....	.....	.....
G'd Traverse.....	44	2	4.55	2	4.55	1	2.27	.....	.....	.....	.....
Gratiot.....	166	20	12.05	9	5.42	4	2.41	.....	.....	.....	.....
Hillsdale.....	236	39	16.53	9	3.81	6	2.54	.....	.....	1	.42
Houghton.....	250	17	6.80	5	2.00	4	1.60	.....	.....	13	5.20
Huron.....	150	8	5.33	7	4.67	4	2.67	.....	.....	4	2.67
Ingham.....	249	42	16.87	12	4.82	12	4.82	2	.80	.....	.....
Ionia.....	290	29	10.00	5	1.72	8	2.76	2	.69	.....	.....

TABLE XXV.—CONTINUED.

COUNTIES.	Deaths from All Causes, 1892.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
		Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
Iosco.....	55	2	3.64	2	3.64	1	1.82	.....	.....	1	1.82
Isabella.....	135	21	15.56	5	3.70	4	2.96	1	.74	1	.74
Jackson.....	356	33	9.27	16	5.06	3	.84	1	.28	3	.84
Kalamazoo.....	338	45	13.31	25	7.40	2	.59	2	.59	.....	.....
Kalkaska.....	46	1	2.17	1	2.17	2	4.35	.....	.....	.....	.....
Kent.....	809	111	13.72	38	4.70	24	2.97	3	.37	37	4.57
Keweenaw.....	101	5	4.95	6	5.94	7	6.93	.....	.....	5	4.95
Lake.....	37	1	2.70	1	2.70	2	5.41	.....	.....	1	2.70
Lapeer.....	245	23	9.39	20	8.16	7	2.86	.....	.....	1	.41
Leelanaw.....	39	5	12.82	2	5.13	2	5.13	.....	.....	.....	.....
Lenawee.....	401	65	16.21	12	2.99	19	4.74	.....	.....	5	1.25
Livingston.....	178	20	11.24	10	5.62	10	5.62	.....	.....	2	1.12
Mackinac.....	18	1	5.56	1	5.56	3	16.67	.....	.....	.....	.....
Macomb.....	267	52	19.48	6	2.25	4	1.50	.....	.....	7	2.62
Manistee.....	219	10	4.57	8	3.65	10	4.57	.....	.....	6	2.74
Manitou.....	11	2	18.18	1	9.09	.....	.....	.....	.....	.....	.....
Marquette.....	419	19	4.53	13	3.10	27	6.44	.....	.....	13	3.10
Mason.....	80	6	7.50	4	5.00	1	1.25	.....	.....	.....	.....
Mecosta.....	193	11	5.70	10	5.18	15	7.77	1	.52	1	.52
Menominee.....	93	2	2.15	2	2.15	2	2.15	.....	.....	2	2.15
Midland.....	87	12	13.79	3	3.45	.....	.....	.....	.....	1	1.15
Missaukee.....	32	.....	.....	2	6.25	1	3.13	.....	.....	1	3.13
Monroe.....	302	36	11.92	14	4.64	7	2.32	1	.33	3	.99
Montcalm.....	278	29	10.43	22	7.91	8	2.88	.....	.....	1	.36
Montmorency.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Muskegon.....	339	20	5.90	13	3.83	10	2.95	1	.29	8	2.36
Newaygo.....	131	10	7.63	6	4.58	7	5.34	.....	.....	6	4.58
Oakland.....	341	46	13.49	16	4.69	8	2.35	.....	.....	2	.59
Oceana.....	137	15	10.95	9	6.57	2	1.46	.....	.....	.....	.....
Ogemaw.....	32	.....	.....	1	3.13	.....	.....	.....	.....	.....	.....
Ontonagon.....	36	1	2.78	3	8.33	4	11.11	.....	.....	.....	.....
Osceola.....	107	8	7.48	7	6.54	3	2.80	1	.93	.....	.....
Oscoda.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Otsego.....	17	2	11.76	2	11.76	1	5.88	.....	.....	.....	.....
Ottawa.....	367	32	8.72	22	5.99	8	2.18	2	.54	8	2.18

TABLE XXV.—CONTINUED.

COUNTIES.	Deaths from All Causes, 1882.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
		Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
Presque Isle.....	38	3	7.89	—	—	—	—	—	—	—	—
Rosecommon.....	9	—	—	—	—	1	11.11	—	—	—	—
Saginaw.....	848	12	9.67	50	5.90	19	2.24	3	.35	28	2.30
Sanilac.....	193	13	6.74	7	3.63	6	3.11	1	.52	3	1.55
Schoolcraft.....	39	2	5.13	1	2.56	—	—	—	—	—	—
Shiawassee.....	160	20	12.50	11	6.88	6	3.75	—	—	1	6.25
St. Clair.....	405	48	11.85	19	4.69	9	2.23	1	.25	5	1.23
St. Joseph.....	252	38	15.08	14	5.56	4	1.59	—	—	1	.40
Tuscola.....	252	23	9.13	9	3.57	6	2.38	—	—	—	—
Van Buren.....	204	25	12.25	12	5.88	8	3.92	1	.49	—	—
Washtenaw.....	351	45	12.82	13	3.70	11	3.13	2	.57	1	.28
Wayne.....	2,454	266	10.80	78	3.18	45	1.83	6	.24	61	2.49
Wexford.....	84	4	4.76	5	5.95	2	2.38	—	—	—	—

**TABLE XXVI.**—*Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of all aged under 5; also the Per Cent of Deaths from Old Age, of all Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, during the Year 1882.*

STATE AND GEOGRAPHICAL DIVISIONS. <sup>a</sup>	SEX.	Deaths at All Ages, 1882.	OLD AGE, 1882.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.
State.....	Total.....	16,425	647	3.94	1,775	10.81	6,375	38.81
	Males.....	8,713	317	3.64	1,010	11.59	3,452	39.62
	Females.....	7,664	330	4.31	765	9.98	2,879	37.57
	Unknown.....	48					44	91.67
Upper-Peninsular.....	Total.....	1,128	19	1.68	41	3.63	390	52.30
	Males.....	634	10	1.58	23	3.63	215	49.68
	Females.....	490	9	1.84	18	3.67	271	55.31
	Unknown.....	4					4	100.00
North-western.....	Total.....	483	7	1.45	29	6.00	234	48.45
	Males.....	279	2	.72	18	6.45	139	49.82
	Females.....	200	5	2.50	11	5.50	91	45.50
	Unknown.....	4					4	100.00
Northern.....	Total.....	423	8	1.89	16	3.78	194	45.86
	Males.....	217	3	1.38	8	3.69	108	48.85
	Females.....	204	5	2.45	8	3.92	86	42.16
	Unknown.....	2					2	100.00
North-eastern.....	Total.....	230	5	2.17	10	4.35	133	57.83
	Males.....	126	4	3.17	7	5.56	70	55.56
	Females.....	103	1	.97	3	2.91	62	60.19
	Unknown.....	1					1	100.00
Western.....	Total.....	2,007	53	2.64	155	7.72	870	43.35
	Males.....	1,060	27	2.55	95	8.96	477	45.00
	Females.....	939	26	2.77	60	6.39	393	41.11
	Unknown.....	8					7	87.50

<sup>a</sup> For counties included in each Division, see page 164.

<sup>b</sup> For counties and townships from which no returns in 1882 were received, see Exhibit H, page 160; for those in which no deaths occurred, see Exhibit I, page 160.

TABLE XXVI.—CONTINUED.

GEOGRAPHICAL DIVISIONS.	SEX.	Deaths at All Ages, 1882.	OLD AGE, 1882.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.
Northern-Central.....	Total.....	471	12	2.55	21	4.46	200	42.46
	Males.....	256	11	4.30	19	7.42	106	41.41
	Females.....	213	1	.47	2	.94	93	43.66
	Unknown.....	2	—	—	—	—	1	50.00
Bay and Eastern.....	Total.....	2,596	107	4.12	215	8.28	1,178	45.36
	Males.....	1,437	49	3.41	119	8.28	660	45.93
	Females.....	1,159	58	5.03	93	8.33	513	44.53
	Unknown.....	7	—	—	—	—	5	71.43
Central.....	Total.....	2,236	84	3.76	303	13.55	718	32.11
	Males.....	1,163	41	3.53	176	15.13	389	33.45
	Females.....	1,067	43	4.03	127	11.90	323	30.97
	Unknown.....	6	—	—	—	—	6	100.00
South-western.....	Total.....	1,082	53	4.90	156	14.42	333	30.78
	Males.....	557	21	3.77	87	15.62	174	31.94
	Females.....	518	32	6.18	69	13.32	159	29.94
	Unknown.....	7	—	—	—	—	7	100.00
Southern-Central.....	Total.....	2,405	142	5.90	478	19.88	581	24.16
	Males.....	2,242	70	5.64	269	21.06	324	26.09
	Females.....	1,159	72	6.21	209	18.03	253	21.83
	Unknown.....	4	—	—	—	—	4	100.00
South-eastern.....	Total.....	3,364	157	4.67	351	10.43	1,344	39.95
	Males.....	1,742	79	4.54	189	10.85	692	39.73
	Females.....	1,619	78	4.82	162	10.01	649	40.09
	Unknown.....	3	—	—	—	—	3	100.00

\* For counties included in each Division, see page 184.



## a in Michigan, during the Year 1882.

DEATHS FROM CONSUMPTION, 1882.															DEATHS FROM PNEUMONIA, 1882.														
PER CENT OF THE SEXES.															PER CENT OF THE SEXES.														
NUMBER.					PER CT. OF DEATHS AT EACH AGE TO ALL					PER CENT OF THE SEXES.					NUMBER.					PER CT. OF DEATHS AT EACH AGE TO ALL					PER CENT OF THE SEXES.				
Males.		Fe- males.		Total.	Males.		Fe- males.		Excess.	Males.		Fe- males.		Excess.	Males.		Fe- males.		Total.	Males.		Fe- males.		Excess.					
832		972		1,804	100.00		53.88		7.76	40.12		53.88		7.76	403		330		*755	54.98		45.02		9.96					
a 42		53		b 95	b 5.27		55.79		11.58	44.21		55.79		11.58	*164		150		b 316	52.23		47.77		4.46					
13		12		25	1.39		48.00		4.00	52.00		48.00		4.00	13		21		34	38.24		61.76		c 23.52					
10		29		39	2.16		74.36		48.72	25.64		74.36		48.72	6		8		14	42.86		57.14		14.28					
44		102		b 146	b 8.09		69.86		39.72	30.14		69.86		39.72	17		8		25	68.00		32.00		36.00					
*120		157		b 277	b 15.35		56.68		13.36	39.86		56.68		13.36	a 19		17		b 36	52.78		47.22		5.56					
a 95		134		b 229	b 12.69		58.52		17.04	41.48		58.52		17.04	a 16		4		b 20	80.00		20.00		60.00					
a 64		100		b 164	b 9.69		60.98		21.96	39.02		60.98		21.96	a 9		3		b 12	75.00		25.00		50.00					
* 72		70		b 142	b 7.87		49.30		1.40	50.70		49.30		1.40	a 11		9		b 20	55.00		45.00		10.00					
a 51		53		b 104	b 5.77		50.96		1.92	40.04		50.96		1.92	a 13		10		b 23	56.52		43.48		13.04					
a 53		41		94	5.21		56.38		12.76	56.38		43.62		12.76	a 20		7		27	74.07		25.93		48.14					
a 51		46		97	5.38		47.42		5.16	52.58		47.42		5.16	a 20		9		29	68.97		31.03		37.94					
33		41		74	4.10		55.41		10.82	44.59		55.41		10.82	22		17		39	56.41		43.59		12.82					
* 51		32		83	4.60		38.55		22.90	61.45		38.55		22.90	a 14		19		33	42.42		57.58		c 15.16					
41		33		74	4.10		44.59		10.82	55.41		44.59		10.82	13		9		22	39.09		40.91		18.18					
40		24		64	3.55		37.50		25.00	62.50		37.50		25.00	21		19		40	52.50		47.50		5.00					
24		16		40	2.22		40.00		20.00	60.00		40.00		20.00	c 10		10		20	50.00		50.00		c					
8		12		20	1.11		60.00		20.00	40.00		60.00		20.00	9		8		17	52.94		47.06		5.88					
29		17		46	2.05		45.95		8.10	54.05		45.95		8.10	6		2		8	75.00		25.00		50.00					
48		56		104	5.76		53.85		7.76	46.15		53.85		7.76	23		19		43	54.76		45.24		9.52					

a More than the average number of deaths of males from Consumption, and less than the average number of deaths of males from Pneumonia, and vice versa.

b More than an average number and per cent of deaths from Consumption, and less than an average number and per cent of deaths from Pneumonia, and vice versa.

c More than an average proportion of males from Consumption, and less than average proportion of males from Pneumonia, and vice versa.

\* Includes 2 unknown ages excluded.

<sup>d</sup> Of 17 periods of 5 years each, unknown ages excluded.

**TABLE XXIV.**—*Exhibiting, for the State and Eleven Geographical Divisions in 1882, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever and Diarrhea; also, the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever and Diarrhea to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.	SEX.	Deaths from All Causes, 1882.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMIT- TENT FEVER.		DIARRHEA.	
			Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
STATE	Total.....	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	350	1.88
	Males.....	8,713	832	9.55	403	4.63	289	3.00	25	.29	144	1.65
	Females.....	7,664	972	12.68	330	4.31	193	2.52	9	.12	115	1.50
	Unknown.....	48	.....	.....	2	4.17	1	2.08	.....	.....	.....	.....
Upper Peninsular	Total.....	1,128	66	5.85	34	3.01	55	4.88	1	.09	36	3.19
	Males.....	634	34	5.36	18	2.84	36	5.68	1	.16	19	3.00
	Females.....	490	32	6.53	16	3.27	19	3.88	.....	.....	17	3.47
	Unknown.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northwestern	Total.....	483	29	6.00	20	4.14	17	3.52	.....	.....	7	1.45
	Males.....	279	17	6.09	13	4.66	9	3.23	.....	.....	4	1.43
	Females.....	200	12	6.00	7	3.50	8	4.00	.....	.....	3	1.50
	Unknown.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northern	Total.....	423	28	6.62	14	3.31	20	4.73	.....	.....	1	.24
	Males.....	217	12	5.53	8	3.69	14	6.45	.....	.....	1	.46
	Females.....	204	16	7.84	6	2.94	6	2.94	.....	.....	.....	.....
	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northeastern	Total.....	230	11	4.78	7	3.04	1	.43	.....	.....	3	1.30
	Males.....	126	3	2.38	6	4.76	.....	.....	.....	.....	1	.79
	Females.....	103	8	7.77	1	.97	1	.97	.....	.....	2	1.94
	Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Western	Total.....	2,007	203	10.11	100	4.98	57	2.84	7	.35	60	2.99
	Males.....	1,060	91	8.58	53	5.00	32	3.02	5	.47	34	3.21
	Females.....	939	112	11.93	47	5.01	25	2.66	2	.21	26	2.77
	Unknown.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northern Central	Total.....	471	48	10.19	19	4.03	21	4.46	2	.42	3	.64
	Males.....	256	22	8.59	11	4.30	16	6.25	2	.78	3	1.17
	Females.....	213	26	12.21	8	3.76	5	2.35	.....	.....	.....	.....
	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bay and Eastern	Total.....	2,596	262	10.09	136	5.24	67	2.58	7	.27	51	1.96
	Males.....	1,437	129	8.98	78	5.43	40	2.78	6	.42	26	1.81
	Females.....	1,152	133	11.55	58	5.03	26	2.26	1	.09	25	2.17
	Unknown.....	7	.....	.....	.....	.....	1	14.29	.....	.....	.....	.....

<sup>a</sup>For counties included in each division, see page 184.

<sup>b</sup>For counties and townships from which no returns of deaths for 1882 were received, see Exhibit H, page 159. For those in which no deaths occurred, see Exhibit I, page 160.

TABLE XVII.—CONTINUED.

COUNTIES.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Number of Deaths, 1892.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Deaths at All Ages.
Saginaw .....	848	34	4.01	61	7.19	397	46.82
Sanilac .....	193	13	6.74	21	10.88	89	46.11
Schoolcraft .....	39	.....	.....	.....	.....	16	41.03
Shiawassee .....	160	7	4.38	30	18.75	50	31.25
St. Clair .....	405	18	4.44	44	10.86	156	38.52
St. Joseph .....	252	15	5.95	46	18.25	73	28.97
Tuscola .....	252	11	4.37	21	8.33	108	42.86
Van Buren .....	204	7	3.43	38	18.63	61	29.90
Washtenaw .....	351	21	5.98	67	19.09	87	24.79
Wayne .....	2,454	115	4.69	207	8.44	1,071	43.64
Wexford .....	84	.....	.....	5	5.95	39	46.43



3	1	1	2	2	3	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---





### CAUSES OF DEATH,—CONSUMPTION.

821

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95					

TABLE XXV.—CONTINUED.

COUNTIES.	Deaths from All Causes, 1882.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
		Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
Presque Isle.....	38	3	7.89	—	—	—	—	—	—	—	—
Rosecommon.....	9	—	—	—	—	1	11.11	—	—	—	—
Saginaw.....	848	82	9.67	50	5.90	19	2.24	3	.35	28	3.30
Sanilac.....	193	13	6.74	7	3.63	6	3.11	1	.52	3	1.55
Schoolcraft.....	39	2	5.13	1	2.56	—	—	—	—	—	—
Shiawassee.....	160	20	12.50	11	6.88	6	3.75	—	—	1	6.25
St. Clair.....	405	48	11.85	19	4.69	9	2.23	1	.25	5	1.23
St. Joseph.....	252	38	15.08	14	5.56	4	1.59	—	—	1	.40
Tuscola.....	252	23	9.13	9	3.57	6	2.38	—	—	—	—
Van Buren.....	204	25	12.25	12	5.88	8	3.92	1	.49	—	—
Washtenaw.....	351	45	12.82	13	3.70	11	3.13	2	.57	1	.28
Wayne.....	2,454	266	10.80	78	3.18	45	1.83	6	.24	61	2.49
Wexford.....	84	4	4.76	5	5.95	2	2.33	—	—	—	—

**TABLE XXVI.**—*Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of all aged under 5; also the Per Cent of Deaths from Old Age, of all Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, during the Year 1882.*

STATE AND GEOGRAPHICAL DIVISIONS.	SEX.	Deaths at All Ages, 1882.	OLD AGE, 1882.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.
State.....	Total.....	16,425	647	3.94	1,775	10.81	6,375	38.81
	Males.....	8,713	317	3.64	1,010	11.59	3,462	39.62
	Females.....	7,664	330	4.31	765	9.98	2,879	37.57
	Unknown.....	48					44	91.67
Upper-Peninsular.....	Total.....	1,128	19	1.68	41	3.63	390	52.30
	Males.....	634	10	1.58	23	3.63	315	49.68
	Females.....	490	9	1.84	18	3.67	271	55.31
	Unknown.....	4					4	100.00
North-western.....	Total.....	483	7	1.45	29	6.00	234	48.45
	Males.....	279	2	.72	18	6.45	139	49.82
	Females.....	200	5	2.50	11	5.50	91	45.50
	Unknown.....	4					4	100.00
Northern.....	Total.....	423	8	1.89	16	3.78	194	45.86
	Males.....	217	3	1.38	8	3.69	106	48.85
	Females.....	204	5	2.45	8	3.92	86	42.16
	Unknown.....	2					2	100.00
North-eastern.....	Total.....	230	5	2.17	10	4.35	133	57.83
	Males.....	126	4	3.17	7	5.56	70	55.56
	Females.....	103	1	.97	3	2.91	62	60.19
	Unknown.....	1					1	100.00
Western.....	Total.....	2,007	53	2.64	155	7.72	870	43.35
	Males.....	1,060	27	2.55	95	8.96	477	45.00
	Females.....	939	26	2.77	60	6.30	389	41.11
	Unknown.....	8					7	87.50

\* For counties included in each Division, see page 184.

\* For counties and townships from which no returns in 1882 were received, see Exhibit H, page 159; for those in which no deaths occurred, see Exhibit I, page 160.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters  $\alpha$  and  $\beta$ . It is shown that the system has a solution for arbitrary values of the parameters  $\alpha$  and  $\beta$  if and only if the condition  $\alpha + \beta = 1$  is satisfied. In the case when this condition is not satisfied, the system has no solution.

2. In the second part of the paper, the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters  $\alpha$  and  $\beta$  is considered. It is shown that the system has a solution for arbitrary values of the parameters  $\alpha$  and  $\beta$  if and only if the condition  $\alpha + \beta = 1$  is satisfied. In the case when this condition is not satisfied, the system has no solution.



TABLE XXVII.—*Exhibiting, for the State and Counties of Michigan, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also, the Per Cent of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, for the Year 1882.*

STATE AND COUNTIES.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Number of Deaths, 1882.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Deaths at All Ages.
State.....	16,425	647	3.94	1,775	10.81	6,375	38.81
Alcona.....	9	.....	.....	1	11.11	4	44.44
Allegan.....	382	18	4.71	44	11.52	141	36.91
Alpena.....	87	3	3.45	3	3.45	61	70.11
Antrim.....	78	1	1.29	4	5.13	42	53.85
Baraga.....	41	.....	.....	.....	.....	24	58.54
Barry.....	181	2	1.10	19	10.50	64	35.36
Bay.....	503	15	2.98	24	4.77	273	54.27
Benzie.....	54	1	1.85	3	5.56	31	57.41
Berrien.....	333	18	5.41	50	15.02	95	28.53
Branch.....	207	6	2.90	38	18.36	53	25.60
Calhoun.....	264	15	5.68	57	21.59	67	25.38
Cass.....	163	10	6.13	24	14.72	36	22.09
Charlevoix.....	94	2	2.13	3	3.19	38	40.43
Cheboygan.....	78	2	2.56	2	2.56	39	50.00
Chippewa.....	80	4	5.00	5	6.25	30	37.50
Clare.....	41	1	2.44	2	4.88	21	51.22
Clinton.....	191	5	2.62	29	15.18	56	29.32
Crawford.....	15	.....	.....	.....	.....	7	46.67
Delta.....	51	1	1.96	2	3.92	21	41.18
Eaton.....	202	12	5.94	30	14.85	56	27.72
Emmet.....	95	3	3.16	5	5.26	45	47.37
Genesee.....	341	10	2.93	48	14.08	102	29.91
Gladwin.....	6	.....	.....	.....	.....	4	66.67
Grand Traverse.....	44	2	4.55	7	15.91	15	34.09
Gratiot.....	166	6	3.61	20	12.05	67	40.36
Hillsdale.....	236	25	10.59	59	25.00	35	14.83
Houghton.....	250	3	1.20	6	2.40	146	58.40
Huron.....	150	5	3.33	11	7.33	75	50.00
Ingham.....	249	11	4.42	37	14.86	75	30.12
Ionia.....	290	10	3.45	31	10.69	80	27.59
Iosco.....	55	.....	.....	2	3.64	33	60.00



### CAUSES OF DEATH,—CONSUMPTION.

327

[illegible]

TABLE XXVIII.—CONSUMPTION.—Exhibiting, for the Year and Months, by Sex, the Conjugal Condition, Occupation, and Age in Periods of Years, of All Persons returned as having Died from Consumption in Michigan during the Year ending December 31, 1882.

MONTHS, 1882.												AGES IN PERIODS OF YEARS,—1882.																						
												SEX AND OCCUPATION.																						
YR. 1882.	CONJUGAL CONDITION.																																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1,804	Total.....	TOTAL DEATHS FROM CONSUMPTION.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
99	137	164	163	194	192	151	131	157	148	147	149	8	938	Married...			95	25	29	146	277	229	164	142	104	94	97	74	83	74	64	40	20	37
57	70	77	82	104	74	87	68	84	77	77	77	4	660	Single. ...		95	25	29	122	190	87	41	23	10	3	5	4	..	4	1	3	3		
35	51	68	61	70	55	50	48	67	58	53	41	3	142	Widowed.		95	25	29	122	190	87	41	23	10	3	5	4	..	4	1	3	3		
7	10	12	15	12	16	10	9	11	11	11	17	1	64	Unknown.		..	..	..	..	2	5	3	7	3	11	14	11	18	21	19	17	9	9	
....	6	7	5	8	7	4	6	5	2	6	8	..	973	Total.....		..	..	..	4	9	2	5	4	4	8	6	3	3	2	2	..	..	12	
54	70	83	85	98	82	87	65	105	88	83	69	3	533	Married...		53	12	29	102	157	134	100	70	53	41	46	41	32	33	24	16	12	17	
33	43	44	44	58	39	42	35	59	48	48	38	2	337	Single.....		..	..	..	15	66	96	79	60	44	31	30	29	22	20	14	8	3	13	
16	19	31	28	31	29	34	24	36	32	25	21	1	83	Widowed.		53	12	29	81	84	34	15	7	4	..	2	2	1	..	..	..	2	1	
5	5	8	10	6	11	7	3	6	7	7	8	..	29	Unknown.		..	..	..	..	1	3	3	2	2	6	11	8	9	13	9	8	7	1	
....	3	....	3	3	3	4	3	4	1	3	2	..	832	Total.....		..	..	..	3	6	1	3	1	3	4	3	2	..	..	1	..	..	2	
45	67	81	78	96	70	64	66	62	60	64	74	5	406	Married...		42	13	10	44	126	95	64	72	51	33	51	41	40	24	8	24	8	20	
24	27	33	38	46	35	45	33	25	29	29	39	2	333	Single. ...		..	..	..	2	10	39	36	48	43	41	42	26	36	31	25	14	5	7	
19	32	37	33	39	26	16	24	31	26	28	20	2	59	Widowed.		42	13	10	41	106	53	26	16	6	3	3	3	3	..	4	1	1	2	
2	5	4	5	6	5	3	6	5	4	4	9	1	35	Unknown.		..	..	..	..	1	2	..	5	1	5	3	3	9	8	10	9	2	1	
....	3	7	2	5	4	..	3	1	1	3	6	..	271	Total.....		..	..	..	1	3	1	2	3	1	4	3	1	3	2	1	..	..	10	
16	17	19	23	24	15	17	16	24	22	14	22	3	71	Married...		1	22	36	37	23	23	23	14	12	12	10	5	5	5	5	2	18		
10	4	6	10	6	3	5	7	8	5	2	3	2	106	Single.....		..	..	..	3	8	11	13	7	6	5	4	3	..	2	2	1	..	6	
6	5	9	9	14	7	9	5	12	11	9	9	1	106	Single.....		1	22	29	26	10	6	4	4	4	1	1	1	1	..	..	..	..	1	

	3	1	1	2	2	3	4	5	1	5	1	5	24	Widowed.	Total.
	5	3	3	2	3	4	3	1	2	5	3	31	31	Unknown.	
	10	12	11	19	13	8	17	8	15	9	9	147	147	Total.....	
Occupations	7	3	6	8	6	1	5	4	6	4	2	1	54	Married...	
Unknown,	3	4	4	7	6	4	9	2	6	7	6	5	63	Single.....	
Females.	2	1	1	1	2	3	1	4	1	3	1	19	19	Widowed.	
	3	3	3	3	1	2	2	2	2	2	2	11	11	Unknown.	
	6	5	8	4	11	7	8	9	7	5	13	85	85	Total.....	
Occupations	3	1	2	2	2	2	3	2	1	2	1	17	17	Married...	
Unknown,	3	1	5	2	8	3	3	6	4	3	4	43	43	Single.....	
Males.	1	1	1	1	1	1	1	1	1	2	2	5	5	Widowed.	
	2	3	2	2	2	2	2	1	1	2	5	29	29	Unknown.	
	83	120	145	140	170	137	134	115	143	126	133	1,572	1,572	Total.....	
All Specified	47	66	71	72	98	71	82	61	76	72	75	74	807	Married...	
Occupations,	29	46	69	52	56	48	41	43	55	47	44	32	554	Single.....	
Total.	7	7	11	14	10	14	7	9	10	6	10	12	118	Widowed.	
	1	4	2	6	4	4	2	2	1	4	3	53	53	Unknown.	
	44	53	72	66	85	74	70	57	90	73	74	825	825	Total.....	
Specified	26	40	38	36	32	38	37	31	53	44	46	37	479	Married...	
Occupations,	13	15	27	21	25	25	25	22	30	25	19	16	264	Single.....	
Females.	5	3	7	9	5	9	4	3	5	3	6	5	64	Widowed.	
(Class XII.)	3	2	4	1	2	1	2	1	3	2	1	18	18	Unknown.	
	39	62	73	74	85	63	64	58	53	59	61	3	747	Total.....	
Specified	21	26	33	36	46	33	45	30	23	29	37	1	388	Married...	
Occupations,	16	31	32	31	31	23	16	21	25	22	25	16	290	Single.....	
Males.	2	4	4	5	5	5	3	6	5	3	4	7	54	Widowed.	
(Classes I.-XI.)	1	4	2	3	2	1	1	1	1	1	1	15	15	Unknown.	



TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1882.

MONTHS, 1882.												AGES IN PERIODS OF YEARS, 1882.												SEX AND OCCUPATION.	CONJUGAL CONDITION.	YEAR, 1882.						
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.				55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.
12	17	20	31	33	21	22	13	18	20	18	17	1	1	1	1	8	23	27	20	15	15	20	20	14	20	20	24	14	3	2		
7	10	17	20	23	16	21	13	8	15	12	14					1	4	14	12	12	15	18	20	11	22	16	17	8	2	1		
4	6	9	8	9	2		2	7	4	3	1		1	1		7	19	13	8	2		1	1	1	1	1						
1	1	3	3	3	3	1	3	3	1	3	2	1								1		1	1	1	1	1	1	1	1	1	1	
				1																												
2	3	2	2	4	3	2	2		1	4	3					1	7	3	2	2	2	1	3	1	4							1
2	1		2	1	1	2	1			3	1							1	1	1	2	1	2	1	3							1
	1	2		3	1		1		1	1	2					1	0	2	1	1					1							
																	1								1							
3	6	6	5	10	1	11	1	2	5	3	9	1				1	10	10	5	12	6	4	1	1	2	8	2	1	1			1
1	6	2	2	7	1	7			3	2	7	1					2	3	3	10	3	4	1	1	2	6	1	1	1			1
2		3	1	2		3	1	2	2	1	2					1	8	6	2	2												
			1	1		1												1														2
		1	1																													
3	4	1	1	3	2	3	2	1	3	4	3					2	3	5	3	2	4	2	4	1	3		1	1				
2	1	1		1	1	3	1	1	1	2	1							4	1	1	2	2	2	2		2						1
1	3			2	1				2	2						2	3	1	1	1	2		1									
			1				1																									
8	12	12	20	14	16	9	15	18	12	12	10					13	24	21	16	17	9	11	7	10	8	5	2	8	2	4		
6	2	5	9	5	5	5	10	8	7	4	9					1	9	8	10	11	7	8	6	8	5	6	1	8	1	8	1	8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	149
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----



CLASS III.																			
3	5	6	5	10	11	2	5	3	9	1	63								
1	1	1	1	1	2	1	1	1	1	1	8	Total.....							
1	1	1	1	1	2	1	1	1	1	1	7	Married....							
1	1	1	1	1	2	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	3	Total.....							
1	1	1	1	1	1	1	1	1	1	1	1	Married....							
1	1	1	1	1	1	1	1	1	1	1	2	Single.....							
1	1	1	1	1	1	1	1	1	1	1	2	Total.....							
1	1	1	1	1	1	1	1	1	1	1	1	Married....							
1	1	1	1	1	1	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	4	Total.....							
1	1	1	1	1	1	1	1	1	1	1	2	Married....							
1	1	1	1	1	1	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	1	Widowed....							
1	1	1	1	1	1	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	7	Married....							
1	1	1	1	1	1	1	1	1	1	1	1	Married....							
1	1	1	1	1	1	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	2	Total.....							
1	1	1	1	1	1	1	1	1	1	1	1	Married....							
1	1	1	1	1	1	1	1	1	1	1	1	Single.....							
1	1	1	1	1	1	1	1	1	1	1	1	Married....							
1	1	1	1	1	1	1	1	1	1	1	6	Total.....							
1	1	1	1	1	1	1	1	1	1	1	2	Married....							
1	1	1	1	1	1	1	1	1	1	1	3	Single.....							
1	1	1	1	1	1	1	1	1	1	1	1	Widowed....							





**CAUSES OF DEATH,—CONSUMPTION.**

325

4 Total.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



### CAUSES OF DEATH,—CONSUMPTION.

327

[illegible]



4	Widowed																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
---	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--





																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1882.

MONTHS, 1882.												AGES IN PERIODS OF YEARS, 1882.																							
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Year, 1882.	CONJUGAL CONDITION.	SEX AND OCCUPATION.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
1	1	1	1	1	1	1	1	1	1	1	1	1	6	Total.....	Seamstresses.	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	Married...		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1	1	1	1	1	1	5	Single.....		3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	4	1	1	1	1	1	2	3	3	1	1	13	Total.....	Servants.	6	1	3	1	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
1	1	1	1	1	1	1	1	2	3	3	1	1	1	Married...		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	3	1	1	1	1	1	2	3	3	1	1	12	Single.....		2	1	3	1	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1	1	3	1	1	1	1	1	2	3	3	1	1	1	Single.....	Shirt-makers.	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	Single.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	11	Single.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	2	1	1	1	1	1	2	2	1	1	1	14	Total.....	Students.	4	5	2	1	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	1	1	1	1	1	1	1	2	1	1	1	1	4	Married...		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	16	Single.....		4	4	2	1	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	2	1	1	2	1	1	2	1	1	1	1	4	Married...	Teachers.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	10	Single.....		4	4	2	1	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1	1	1	1	Widowed..		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	13	14	19	15	12	14	11	14	10	10	1	152	Total.....	Tailloresses.	53	11	11	24	17	9	6	3	3	3	3	3	3	3	3	3	3	3	3	3
1	1	1	1	1	1	1	1	1	1	1	1	1	21	Married...		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	126	Single.....		53	11	11	24	15	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	4	Widowed..	Unemployed.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	Unknown..		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Exhibit Q contains some items of interest concerning the average age at death of decedents in Michigan for a number of years. It may be seen that the average age of males for the year 1882 was about 26 years, and the average age of females a little more than a year younger. ~~Decedents from consumption~~ **Decedents from consumption show an average age of 39 years for males and 34 years for females. All who died aged 20 years and over in this State in 1882, show an average age of 53 years for males and 50 years for females,**

EXHIBIT Q.—*The Average Age of both Sexes, of each Sex, and the difference between the Sexes, for all Returned as having died from All Causes during the Years from 1874 to 1882,, inclusive, as shown by the Registration Returns; for All Returned as having died from Consumption; for All Aged 20 and over, and for the Native and Foreign-born Inhabitants Returned as having died during the Years 1874 to 1882, inclusive.*

	Year Ending Dec. 31:	Average Age in Years and 100ths of a Year.			
		Total.	Males.	Fe- males.	Excess of Males.
Deaths as shown by Registration Returns.....		25.33	25.78	24.09	.83
Deaths of Native-born inhabitants as shown by Registration Returns.....		20.26	23.99	20.25	3.74
Deaths of Foreign-born inhabitants as shown by Registration Returns.....		47.15	47.99	46.13	1.86
Deaths from Consumption, by Registration Returns.....	1874..	36.48	39.90	33.44	6.46
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		50.77	52.70	48.23	4.47
All who died, aged 20 years and over, as shown by Registration Returns.....		50.89	52.84	48.72	4.12
Deaths as shown by Registration Returns.....		25.32	26.31	24.36	1.95
Deaths of Native-born inhabitants as shown by Registration Returns.....		20.17	20.73	19.88	.85
Deaths of Foreign-born inhabitants as shown by Registration Returns.....		46.90	48.68	44.49	4.19
Deaths from Consumption, by Registration Returns.....		35.77	38.19	33.58	4.61
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	1875..	51.07	53.29	47.87	5.42
All who died, aged 20 years and over, as shown by Registration Returns.....		50.65	52.79	48.06	4.73
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		50.68	53.86	47.61	6.25
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		50.77	52.37	48.54	3.83
Deaths as shown by Registration Returns.....		25.83	26.79	25.04	1.75
Deaths of Native-born inhabitants as shown by Registration Returns.....		20.86	21.34	20.60	.74
Deaths of Foreign-born inhabitants as shown by Registration Returns.....		47.33	48.91	46.68	2.23
Deaths from Consumption, by Registration Returns.....		35.70	40.20	33.40	6.80
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	1876..	51.93	54.00	49.89	4.11
All who died, aged 20 years and over, as shown by Registration Returns.....		51.94	53.91	49.88	4.03
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		51.09	54.46	48.92	5.54
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		52.25	53.70	51.96	1.74
Deaths as shown by Registration Returns.....		25.89	26.44	25.44	1.00
Deaths of Native-born inhabitants as shown by Registration Returns.....		20.30	20.22	20.57	-.35
Deaths of Foreign-born inhabitants as shown by Registration Returns.....		49.31	50.31	48.00	2.31
Deaths from Consumption, by Registration Returns.....		36.34	39.42	33.94	5.48
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	1877..	51.71	53.89	49.55	4.34
All who died, aged 20 years and over, as shown by Registration Returns.....		51.88	54.03	49.65	4.38
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		51.25	54.13	48.43	5.71
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		53.01	53.95	51.78	2.17
Deaths as shown by Registration Returns.....	1878..	26.41	26.99	25.99	1.00
Deaths of Native-born inhabitants as shown by Registration Returns.....		20.74	21.20	21.10	.10
Deaths of Foreign-born inhabitants as shown by Registration Returns.....		49.75	50.96	48.85	2.11

## EXHIBIT Q.—CONTINUED.

	Year Ending Dec. 31.	Average Age in Years and 100ths of a Year.			
		Total.	Males.	Fe- males	Excess of Males.
Deaths from Consumption, by Registration Returns.....	1878...	36.67	40.95	33.25	7.70
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.45	54.21	50.41	3.80
All who died, aged 20 years and over, as shown by Regis- tration Returns.....		52.40	54.17	50.57	3.60
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		51.01	54.20	49.57	4.63
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		53.84	54.88	53.15	1.73
Deaths as shown by Registration Returns.....	1879...	25.76	26.31	25.28	1.03
Deaths of Native-born inhabitants as shown by Regis- tration Returns.....		20.07	19.94	20.32	-.38
Deaths of Foreign-born inhabitants as shown by Regis- tration Returns.....		49.55	49.21	47.17	2.04
Deaths from Consumption, by Registration Returns.....		35.99	39.30	33.12	6.18
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.29	54.73	49.42	5.31
All who died, aged 20 years and over, as shown by Regis- tration Returns.....	1880...	52.46	54.67	50.05	4.62
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		51.24	54.19	48.43	5.76
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		54.23	52.76	52.86	-.10
Deaths as shown by Registration Returns.....		25.45	26.06	24.88	1.18
Deaths of Native-born inhabitants as shown by Regis- tration Returns.....		19.74	19.73	19.89	-.16
Deaths of Foreign-born inhabitants as shown by Regis- tration Returns.....	1881...	47.72	48.93	45.04	3.89
Deaths from Consumption, by Registration Returns.....		35.16	38.09	32.67	5.42
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.40	53.59	50.50	3.09
All who died, aged 20 years and over, as shown by Regis- tration Returns.....		52.50	54.23	50.52	3.71
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		51.54	53.84	49.20	4.64
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....	1882...	54.13	55.05	51.60	3.45
Deaths as shown by Registration Returns.....		24.06	24.55	23.70	.85
Deaths of Native-born inhabitants as shown by Regis- tration Returns.....		18.86	18.74	19.14	-.40
Deaths of Foreign-born inhabitants as shown by Regis- tration Returns.....		45.43	46.03	44.66	1.37
Deaths from Consumption, by Registration Returns.....		35.88	37.04	33.93	3.11
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	1881...	51.61	53.12	49.90	3.22
All who died, aged 20 years and over, as shown by Regis- tration Returns.....		51.35	52.60	49.90	2.70
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		40.37	52.38	48.31	4.07
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		52.76	52.60	52.74	.06
Deaths as shown by Registration Returns.....	1882...	25.74	26.46	25.07	1.39
Deaths of Native-born inhabitants as shown by Regis- tration Returns.....		20.16	20.33	20.12	.21
Deaths of Foreign-born inhabitants as shown by Regis- tration Returns.....		46.51	47.58	45.84	1.74
Deaths from Consumption, by Registration Returns.....		36.43	39.16	34.22	4.94
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.24	53.56	50.78	2.78
All who died, aged 20 years and over, as shown by Regis- tration Returns.....	1882...	52.22	53.51	50.74	2.77
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		51.49	53.71	49.19	4.52
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.....		53.42	54.12	53.37	.75



Table XXIX. shows the occupations, so far as stated, of those who died in 1882. None are included under twenty years of age. They are arranged under several classes, by way of comparison, so as to throw some light upon the healthfulness of different pursuits. If the numbers and average age of the living among these various classes were known, it would add greatly to the value of these statistics.

According to the evidence here given, among cultivators of the earth the average age at death was 59.58 years. Next in order comes unemployed with an average age of 56.46 years, and the shortest-lived were those classed as seafaring men, whose average age was only 39.26 years. The particular occupations of those included in each class may be seen by reference to the table.

TABLE XXIX.—*Exhibiting, for Decedents Aged 20 Years and Over, in 1882, by Classified Occupations, the Number and the Aggregate and Average Ages of All returned, and of All whose Occupations and Ages were returned, and of All whose Occupations were not Specified, One-half of a Year added to Age of each Person in place of Months and Days excluded.*

CLASS.	OCCUPATIONS,—1882.	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
	ALL AGED 20 YEARS AND OVER.....	7,226	377,698.00	52.27
	ALL SPECIFIED OCCUPATIONS,—AGED 20 YEARS AND OVER..	6,994	365,390.00	52.24
	OCCUPATIONS UNSPECIFIED,—AGED 20 YEARS AND OVER...	232	12,308.00	53.05
I.	CULTIVATORS OF THE EARTH.....	1,675	99,802.50	59.58
II.	ACTIVE MECHANICS ABROAD.....	164	9,007.00	54.92
III.	ACTIVE MECHANICS IN SHOPS.....	253	12,892.00	50.17
IV.	INACTIVE MECHANICS IN SHOPS.....	193	7,389.50	55.56
V.	LABORERS,—NO SPECIAL TRADES.....	759	33,506.50	44.15
VI.	AGENTS, LABORERS ABROAD, ETC.....	106	4,643.50	43.81
VII.	SEAFARING MEN.....	33	1,295.50	39.26
VIII.	SOLDIERS.....	4	207.00	51.75
IX.	BUSINESS MEN.....	295	14,396.50	48.80
X.	PROFESSIONAL MEN.....	132	7,061.00	53.49
XI.	UNEMPLOYED.....	123	6,944.50	56.46
XII.	FEMALES.....	2,317	168,444.50	50.78
I.	CULTIVATORS OF THE EARTH.....	1,675	99,802.50	59.58
	Farmers.....	1,064	99,164.00	59.59
	Farm Laborers.....	4	131.00	32.75
	Gardeners.....	7	507.50	72.50
II.	ACTIVE MECHANICS ABROAD.....	164	9,007.00	54.92
	Brick-layers.....	1	38.50	38.50
	Bridge Builders.....	1	56.50	56.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882.	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
II.	ACTIVE MECHANICS ABROAD.—(Continued.)			
	Carpenters .....	110	6,241.00	56.74
	Joiners .....	1	73.50	73.50
	Masons .....	27	1,384.50	51.28
	Painters.....	20	956.00	47.80
	Ship Carpenters.....	4	257.00	64.25
III.	ACTIVE MECHANICS IN SHOPS.....	253	12,692.00	50.17
	Bakers.....	7	326.50	46.64
	Basket-makers .....	2	132.00	66.00
	Blacksmiths.....	48	2,670.00	55.63
	Book-binders.....	1	44.50	44.50
	Box-makers.....	1	23.50	23.50
	Brewers .....	7	358.50	51.21
	Brick-makers.....	1	65.50	65.50
	Cabinet-makers .....	10	477.00	47.70
	Carriage Trimmers.....	1	64.50	64.50
	Cooks.....	2	95.00	47.50
	Coopers .....	16	876.00	54.75
	Coppersmiths .....	1	75.50	75.50
	Distillers .....	1	64.50	64.50
	Dyers .....	1	23.50	23.50
	Engineers.....	22	846.00	38.45
	Finishers .....	1	33.50	33.50
	Fountain-makers.....	1	55.50	55.50
	Lath Makers .....	1	23.50	23.50
	Locksmiths.....	1	27.50	27.50
	Machinists.....	16	652.00	40.75
	Marble-cutters .....	5	202.50	40.50
	Mechanics .....	22	1,089.00	49.50
	Millers.....	13	745.50	57.35
	Millwrights.....	7	439.50	62.79
	Molders.....	16	644.00	40.25
	Paper-makers.....	1	41.50	41.50
	Patent-makers .....	1	54.50	54.50
	Plasterers.....	3	190.50	63.50
	Plumbers.....	2	80.00	40.00
	Potters.....	1	73.50	73.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882.	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued.)			
	Pressmen.....	2	56.00	28.00
	Scale Builders.....	1	40.50	40.50
	Smelters.....	1	38.50	38.50
	Spring-makers.....	1	23.50	23.50
	Tanners.....	4	181.00	45.25
	Tinkers.....	2	171.00	85.50
	Tinners.....	8	371.00	46.38
	Trunk-makers.....	1	62.50	62.50
	Turners.....	2	56.00	28.00
	Wagon-makers.....	13	774.50	59.58
	Weavers.....	6	421.00	70.17
IV.	INACTIVE MECHANICS IN SHOPS.....	133	7,389.50	55.56
	Barbers.....	12	571.00	47.58
	Cigar-makers.....	9	416.50	46.28
	Harness-makers.....	10	494.00	49.40
	Jewelers.....	8	425.00	53.13
	Painters.....	20	956.00	47.80
	Printers.....	4	106.00	26.50
	Shirt-makers.....	1	41.50	41.50
	Shoemakers.....	35	2,410.50	68.87
	Tailors.....	27	1,594.50	59.06
	Telegraphers.....	4	141.00	35.25
	Watch-makers.....	3	233.50	77.83
V.	LABORERS—NO SPECIAL TRADES.....	759	33,506.50	44.15
	Room-hands.....	1	26.50	26.50
	Firemen.....	4	91.00	22.75
	Grinders.....	1	22.50	22.50
	House-keepers.....	2	113.00	56.50
	Janitors.....	5	308.50	61.70
	Laborers.....	631	28,400.50	45.01
	Mill-hands.....	4	139.00	34.75
	Miners.....	85	3,365.50	39.59
	Porters.....	1	32.50	32.50
	Saw-filers.....	1	24.50	24.50
	Sawyers.....	6	269.00	44.83
	Scalers.....	2	59.00	29.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882.	Number of Persons.	AGE IN YEARS AND HUNDRETHS OF A YEAR.	
			Aggregate.	Average.
V.	LABORERS—NO SPECIAL TRADES—(Continued.)			
	Scavengers .....	1	77.50	77.50
	Shingle-packers .....	1	31.50	31.50
	Walters .....	1	50.50	50.50
	Watchmen .....	3	146.50	48.83
	Well Diggers .....	2	72.00	36.00
	Woodsmen .....	8	277.50	34.63
VI.	AGENTS, LABORERS ABROAD, ETC.....	106	4,643.50	43.81
	Agents .....	4	197.00	49.25
	Baggage Masters .....	2	94.00	47.00
	Brakemen .....	10	266.00	26.60
	Butchers .....	10	342.00	34.20
	Car Inspectors .....	1	64.50	64.50
	Coachmen .....	1	30.50	30.50
	Commercial Agents .....	5	161.50	32.30
	Conductors .....	1	39.50	39.50
	Constables .....	2	115.00	57.50
	Dep. Revenue Collectors .....	1	36.50	36.50
	Dep. Sheriffs .....	1	49.50	49.50
	Draymen .....	4	279.00	69.75
	Drovers .....	1	50.50	50.50
	Foremen .....	7	316.00	45.21
	Freight Agents .....	2	61.00	30.50
	Horse Dealers .....	1	20.50	20.50
	House Movers .....	2	111.00	55.50
	Hucksters .....	2	108.00	54.00
	Hunters .....	2	111.00	55.50
	Peddlers .....	5	238.50	47.70
	Policemen .....	3	116.50	38.83
	Railroaders .....	11	407.50	37.05
	Railroad Laborers .....	2	128.00	64.00
	Samplers .....	1	31.50	31.50
	Stage Drivers .....	1	22.50	22.50
	Switchmen .....	1	27.50	27.50
	Teamsters .....	18	939.00	52.17
	Threshers .....	2	82.00	41.00
	Ticket Agents .....	1	42.50	42.50

## CAUSES OF DEATH.—OCCUPATIONS.

339

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)			
	Ticket Inspectors.....	1	81.50	81.50
	Weigh Masters.....	1	72.50	72.50
VII.	SEAFARING MEN.....	33	1,295.50	39.26
	Fishermen.....	7	262.50	37.50
	Lake Captains.....	1	70.50	70.50
	Raftsmen.....	1	21.50	21.50
	Sailors.....	22	861.00	39.14
	Sea Captains.....	2	80.00	40.00
VIII.	SOLDIERS.....	4	207.00	51.75
	Military Officers.....	1	74.50	74.50
	Soldiers.....	3	132.50	44.17
IX.	BUSINESS MEN.....	295	14,396.50	48.80
	Accountants.....	1	22.50	22.50
	Bankers.....	5	282.50	56.50
	Bank Tellers.....	1	23.50	23.50
	Book-keepers.....	15	512.50	34.17
	Capitalists.....	2	150.00	75.00
	Clerks.....	37	1,319.50	35.66
	Commission Merchants.....	1	67.50	67.50
	Confectioners.....	1	55.50	55.50
	Contractors.....	3	162.50	54.17
	Coroners.....	1	79.50	79.50
	Druggists.....	5	224.50	44.90
	Electric-light men.....	1	22.50	22.50
	Express Agents.....	1	52.50	52.50
	Furniture Dealers.....	2	83.00	41.50
	Grocers.....	9	404.50	44.94
	Hatters.....	1	77.50	77.50
	Hotel keepers.....	23	1,186.50	51.59
	Ice Dealers.....	1	55.50	55.50
	Indian Agents.....	1	69.50	69.50
	Insurance Agents.....	2	133.00	66.50
	Jobbers.....	4	255.00	63.75
	Justices of the Peace.....	2	100.00	50.00
	Land Agents.....	3	156.50	52.17



TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882.	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
IX.	BUSINESS MEN—(Continued.)			
	Livery-keepers.....	3	182.50	60.83
	Lumber Inspectors.....	1	72.50	72.50
	Lumbermen.....	29	1,363.50	47.02
	Manufacturers.....	3	125.50	41.83
	Merchants.....	80	4,409.50	55.11
	News Agents.....	2	75.00	37.50
	Nursery Men.....	1	70.50	70.50
	Pension Agents.....	1	58.50	58.50
	Photographers.....	2	69.00	34.50
	Politicians.....	1	64.50	64.50
	Postmasters.....	3	209.50	69.83
	Public Officers.....	1	69.50	69.50
	Restaurant Keepers.....	2	95.00	47.50
	Salesmen.....	3	118.50	39.50
	Saloonists.....	36	1,649.00	45.81
	Speculators.....	2	124.00	62.00
	Tobacco Merchants.....	1	64.50	64.50
	Wholesale Liquor Dealers.....	1	49.50	49.50
	Wood Dealers.....	1	30.50	30.50
X.	PROFESSIONAL MEN.....	122	7,061.00	53.49
	Actors.....	1	26.50	26.50
	Civil Engineers.....	1	33.50	33.50
	Dentists.....	2	75.00	37.50
	Editors.....	1	72.50	72.50
	Explorers.....	1	68.50	68.50
	Horse Doctors.....	3	162.50	54.17
	Lawyers.....	23	1,359.50	59.11
	Ministers.....	26	1,765.00	67.89
	Musicians.....	5	193.50	38.70
	Physicians.....	36	2,089.00	57.47
	Students.....	8	195.00	24.38
	Surveyors.....	3	163.50	54.50
	Teachers.....	21	831.50	39.60
	Temperance Lecturers.....	1	45.50	45.50
VI.	UNEMPLOYED.....	123	6,944.50	56.46
	Paupers.....	17	963.50	56.68

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882.	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
XI.	UNEMPLOYED—(Continued.)			
	Retired.....	12	887.00	73.92
	Unemployed.....	94	5,094.00	54.19
	Unknown.....	232	12,308.00	53.05
XII.	FEMALES.....	3,317	168,444.50	50.78
	Actresses.....	1	25.50	25.50
	Artists.....	1	56.50	56.50
	Bare-back riders.....	1	31.50	31.50
	"Bleachery".....	1	41.50	41.50
	Boarding-house Keepers.....	2	66.00	33.00
	Captains' Wives.....	1	40.50	40.50
	Carpet Weavers.....	2	106.00	53.00
	Cheese Makers.....	1	60.50	60.50
	Clergymen's Wives.....	2	135.00	67.50
	Clerks.....	3	72.50	24.17
	Confectioners.....	1	40.50	40.50
	Cooks.....	2	106.00	53.00
	Domestics.....	32	1,250.00	39.07
	Dressmakers.....	24	784.00	32.67
	Editors.....	1	40.50	40.50
	Farmers.....	156	8,398.00	53.83
	Farmers' Daughters.....	15	365.50	24.37
	Farmers' Wives.....	100	5,102.00	51.00
	Grocers.....	1	35.50	35.50
	Hair-dressers.....	4	201.00	50.25
	Housekeepers.....	737	41,019.50	55.66
	Housewives.....	1,235	59,636.50	48.29
	Houseworkers.....	70	3,626.00	51.80
	Keepers of house of ill-fame.....	1	28.50	28.50
	Laborers.....	13	642.50	49.42
	Laborers' Wives.....	3	97.50	32.50
	Landladies.....	1	45.50	45.50
	Laundresses.....	2	44.00	22.00
	Matrons.....	1	24.50	24.50
	Merchants.....	2	108.00	54.00
	Midwives.....	2	140.00	70.00
	Millers.....	1	33.50	33.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1882.*

CLASS.	OCCUPATIONS,—1882	Number of Persons.	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
			Aggregate.	Average.
<b>XII.</b>	<b>FEMALES—(Continued.)</b>			
	Millers' Wives.....	1	52.50	52.50
	Milliners.....	7	321.50	45.93
	Miners' Daughters.....	2	44.00	22.00
	Paupers.....	5	272.50	54.50
	Plasterers.....	1	23.50	23.50
	Prostitutes.....	1	23.50	23.50
	Retired Housewives.....	1	76.50	76.50
	Saloon-keepers.....	1	52.50	52.50
	Seamstresses.....	12	540.00	45.00
	Servants.....	31	967.50	31.21
	Shirt-makers.....	1	21.50	21.50
	Speculators.....	1	84.50	84.50
	Students.....	4	89.00	22.25
	Tailloresses.....	6	331.00	55.17
	Teachers.....	27	854.50	31.65
	Unemployed.....	219	11,732.50	53.57
	Unknown.....	537	28,554.50	53.17
	Washerwomen.....	1	63.50	63.50
	Weavers.....	3	230.50	73.50
	Wives.....	37	1,714.50	46.34

# ALPHABETICAL INDEX.

## A.

	PAGE.
Age, Number of Persons Married at different periods of.....	106-113, 117
Age, Average, of Decedents Aged 20 and Over, by Classified Occupations.....	335-342
Age, Average, of Persons Married in 1876-82, by Nativity.....	105
Ages, Deaths by, by Months and by Sex.....	140-151
Ages, Deaths by, by Sex, and excess of the Sexes.....	136, 137
Ages of Persons who Died, by Months of Death.....	140-151
Ages of Persons who died in 1882.....	135-151
All Ages, Deaths from Old Age, Aged 70 and Over, and Under 5 Years, by Counties.....	315-317
All Causes, Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by Counties.....	310-312
Alpena, Grand Haven, Detroit, and Marquette, Mich., Meteorology at, in 1882.....	276
Austria, Number of Marriages to 1000 population.....	124
Average Age of Decedents Aged 20 and Over, by Occupation.....	335-342
Average Number of Births per Quarter, Month, Week, and Day.....	14
Average Number of Deaths per Quarter, Month, Week, and Day.....	126
Average Number of Marriages per Quarter, Month, Week, and Day.....	89

## B.

Births, Corrected for Omissions in Enumerating.....	14, 15, 18-23
Births by Counties, by Color, by Sex, and Proportion of the Sexes.....	36-43
Births by Counties, Parent-Nativity, and Sex.....	46-53
Births, Deaths, and Excess of Births, by Months, for 1877-82.....	5
Births, Deaths, and Excess of Births by Parent-nativity, for 1875-82.....	7
Births and Deaths, Returned, which Occurred out of Michigan.....	12
Births of Illegitimates, Proportion of, to Total Births for 1873-82.....	73
Births in 1882, Conceptions for, by Months.....	80-86
Births in 1882, Number and Proportion of, by Sex, by Parent-Nativity.....	44
Births, Males to 100 Females.....	22, 36, 81, 82, 85, 86, 88
Births in Michigan during the Year 1882.....	2-11, 13-88
Birth Months Most Favorable to the Life of a Child.....	155
Births, by Months, Corrected for Omissions, for the Years 1878-82.....	18
Births, by Months Equalized, by Sex.....	87
Births, by Months in Order, greatest first, Number and Proportion of, for 1874-82.....	16, 17
Births, Marriages, and Deaths for Certain Periods of Time.....	4
Births, Marriages, Deaths, and Excess of Births over Deaths, 1877-82.....	2
Births, Marriages, and Deaths in 1882, and Population in 1880, by Counties.....	8-11
Births, Marriages, and Deaths, Relations of.....	6
Births, Marriages, and Deaths, Statements Concerning.....	2
Births by Parent Nativity.....	44-53, 88
Births, Per Cent added to Correct for Omissions in Enumerating.....	13
Cent of, as Returned and as Corrected for Omissions, for each of the Years 1873-82.....	13
ent Returned of those which probably occurred.....	13, 14
arter, Month, Week, and Day, as Returned and as Corrected.....	14
ers, for the Years 1874-82, as Returned and as Corrected.....	15
- Color, Influence of Sex upon, etc.....	34, 35
Year 1882, by Months.....	19



	PAGE.
Births of Males during the Year 1882, by Months.....	20
Births of Females during the Year 1882, by Months.....	21
Births during the Year 1882, by Months and Sex.....	22
Births in 1882, as Corrected for Omissions, Equalized to Uniform Months.....	23
Births by Counties, by Months, and by Sex.....	26-33
Births by Color and by Sex, and Proportion of the Sexes.....	34, 35
Birth-rate, Native and Foreign-born Inhabitants.....	44
Births, Parent-Nativity of, 1875-82.....	45
Births of Triplet Children, 1882.....	66
Births of Illegitimates, by Months, Sex, and Parent-Nativity.....	75
Births of Illegitimates by Color, Sex, and Proportion of the Sexes.....	76
Birth-rate, Proportion of Sexes.....	34
Births, Relation of, to Marriages in Months of their Conception.....	24, 25
Births,—Sex of Children.....	80-86
Bowels, Brain, Heart, Throat, and Lungs, Diseases of.....	183
Brain, Bowels, Heart, Throat, and Lungs, Diseases of.....	183
Brides and Bridegrooms, Proportion of, by Periods of Age.....	117
Bridegrooms and Brides, Nativity of.....	163

## C.

Cancer, Deaths from, in 1882.....	223, 224, 266-268
Cancer, Deaths from.....	268
Casualty, Deaths from.....	234, 259
Causes of Death, 1882.....	180-258
Causes of Death, Classified.....	186-215
Causes of Death, Dr. Farr's Classification.....	180, 184-215
Causes of Death, Fifteen Principal, 1875-82.....	263, 264
Causes of Death, Seven Groups of.....	183
Causes of Deaths, Specified, by Months, Sex, and Periods of Age.....	216-258
Cephalitis, Deaths from, in 1882.....	222, 263, 264
Cerebro-spinal Meningitis, Deaths from, in 1882.....	210, 245, 283, 286
Children Born in 1881,—Died Aged Under One Year.....	166
Classes, Deaths by, by Geographical Divisions of the State.....	185
Classified Causes of Deaths, by Counties, 1882.....	186-215
Classified Causes of Deaths, 1874-1882.....	181-182
Classified Occupations of Decedents, Aged 20 and Over, Average Age, etc.....	335-342
Color, Deaths by, by Counties.....	174-176
Color, Deaths by, by Sex, Per Cent of each Color.....	173
Color of Illegitimate Children, by Sex.....	76
Color of Decedents in Michigan, in 1882.....	173-176
Color of Persons Married in Michigan.....	99-102
Color, Marriages by, by Counties.....	100-102
Color or Race, Births by.....	35
Comparative Natural Increase of Native and Foreign-born Inhabitants, 1875-1882.....	7
Congestive Chills, Deaths from, in 1882.....	225, 287, 288
Conceptions for Births in 1882, by Months.....	81-86
Constitutional Diseases, Deaths from.....	181, 132, 185, 186, 189, 199, 206, 209
Consumption, Deaths from, in 1882.....	190, 227, 263, 264, 296-301
Consumption, Occupation of Decedents from, by Sex, Months, Periods of Age, etc.....	318-332
Consumption and Pneumonia, Correlation of.....	306-307
Consumption, Pneumonia, Typhoid Fever, etc., by Geographical Divisions.....	308, 309
Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by Counties.....	310-312
Correlation of Consumption and Pneumonia.....	306, 307
Corrections for Omissions in the Enumeration of Deaths.....	131-134
Counties, Deaths by, by Color, by Sex.....	174-176
Counties, Causes of Death by, Classified.....	186-215
Counties, Deaths by, from Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc.....	310-312
Counties, Deaths by, from Old Age, Aged 70 and Over, Under 5, etc.....	315-317
Counties and Months, Marriages by.....	96-98
Counties, Months, Periods of Age, and Sex, Deaths by.....	161-172
Counties, Months and Sex, Births by.....	26-33
Counties, Parent-Nativity, and Sex, Births by.....	46-53
Counties, Parent-Nativity, and Sex, Twin Births by.....	58-65
Counties and Townships reported as having no Births in 1882.....	79



	PAGE.
Counties and Townships from which no Returns of Births, for 1882, were received.....	80
Counties and Townships from which no Returns of Deaths, for 1882, were received.....	159
Counties and Townships reported as having no Deaths in 1882.....	160
Counties, Twins, Illegitimate, and Still-born Children, by.....	78
Croup, Deaths from, in 1882.....	187, 227, 266, 267, 278, 279

## D.

Day, Week, Month, Quarter, Average Number of Births per.....	14
Deaths Aged Under One Month, Relation of, to Births.....	157
Deaths, All Causes, Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by Counties.....	310-312
Deaths, Average Number, Per Quarter, Month, Week, Day.....	126
Deaths, Births, and Marriages in 1882, and Population in 1880, by Counties.....	8-11
Deaths, Births, and Marriages, Relations of.....	6
Deaths, Births, Marriages, Statements concerning.....	2
Deaths, Births, and Excess of Births, by Months, for 1877-1882.....	5
Deaths and Births, Returned, which Occurred out of Michigan in 1882.....	12
Deaths from Casualty, Specified.....	259
Deaths of Centenarians.....	158
Deaths of Children Aged Under One Year, Born in 1881, by Months.....	154
Deaths by Counties, by Color, by Sex.....	174-176
Deaths by Color, by Sex, and Proportion of the Sexes.....	173
Deaths, 1882, by Classes of Causes, by Divisions of the State.....	185
Deaths by Classes of Causes, by Months.....	181
Deaths by Classified Causes, by Counties.....	186-215
Deaths and Conceptions, Relation between, by Months.....	83-86
Deaths from Consumption, by Occupation, Conjugal Condition, Sex, Months, etc.....	318-332
Deaths by Counties, Nativity, and Sex.....	178-180
Deaths by Counties, Months, Periods of Age, and by Sex.....	161-172
Deaths, Fifteen Principal Causes of, 1875-1882.....	263-264
Deaths Grouped by Part of Body Diseased, 1875-1882.....	183
Deaths, 1875-1882, Number and Proportion of, by Months.....	128
Deaths, Marriages, and Births, for Certain Periods of Time.....	4
Deaths in Michigan during the Year 1882.....	1-4, 8-11, 125-342
Deaths, Months Arranged in Order by Number of—for Massachusetts, Michigan, and Rhode Island.....	131
Deaths by Months, Corrected for Omissions in the Enumeration.....	131-134
Deaths by Months, Sex, and Periods of Age, Specified, for 1877-1882.....	216-258
Deaths of Native and of Foreign-born Inhabitants.....	177-180
Deaths, Number and Per Cent of Each Class to Total, for 1874-1882.....	182
Deaths, Number and Per Cent of, by Quarters of the Years 1874-1882.....	127
Deaths, Number and Per Cent of, by Months and by Sex.....	129
Deaths, Number of, as Returned, and as Corrected for Omissions.....	126
Deaths from Old Age, Aged 70 and Over, Under 5, etc., by Geographical Divisions.....	313, 314
Deaths, Number of—by Periods of Age, Sex, and Proportion of the Sexes.....	135
Deaths by Age, by Sex, and Excess of the Sexes.....	136, 137
Deaths by Periods of Age, by Months.....	139
Death-rate in Michigan.....	126
Deaths as Returned, Corrected, Equalized, etc.....	132, 134
Deaths in 1882 as Returned and as Corrected, Per Cent of, to Inhabitants in 1880.....	126
Deaths as Returned, Equalized, by Months.....	130
Deaths by Periods of Age, by Sex, by Months.....	140, 141
Deaths by Ages, by Sex, by Months.....	142-151
Decedents, 1874-1882, Number and Nativity of.....	177
Decedents Aged 20 and Over, by Occupations, Average Age, etc.....	335-342
Decedents and Inhabitants, Average Age of.....	333, 334
Occupation, Classified, Aggregate and Average Age of.....	335-342
Age, Aged 70 and Over, under 5, etc., by Counties.....	315-317
Married to 1,000 population.....	124
Haven, and Marquette, Meteorology at, in 1882.....	276
in 1882.....	181, 182, 185, 186
in 1882.....	188, 223, 264-267, 291-292, 308-312
Meteorological Conditions.....	292
Pneumonia, Consumption, etc., by Counties.....	310-312
Consumption, Pneumonia, etc., by Geographical Divisions.....	308-309

	PAGE.
Diarrhea and Dysentery, Number and Per Cent of, by Geographical Divisions.....	291
Diagrammatic Table,—Deaths of Children under One Year of Age.....	152-153
Diphtheria, Deaths from, in 1882.....	187, 223, 263-267, 279-285

## E.

Eleven Geographical Divisions of the State, Counties in Each.....	184
England—Number Married to 1,000 Population.....	124
Exhibit A,—Births, Marriages, Deaths, and Excess of Births over Deaths, 1877-1882.....	2
Exhibit A,—Births as Returned, by Months, Corrected and Equalized to Population.....	19
Exhibit A,—Marriages as Returned, by Quarters, Number and Per Cent of, for 1874-1882.....	91
Exhibit A,—Deaths by Months, and by Sex, Equalized, and Proportion of the Sexes.....	120
Exhibit B,—Statements Concerning Births, Marriages, and Deaths.....	2
Exhibit B,—Births of Males by Months, Corrected and Equalized to Population.....	26
Exhibit B,—Marriages Equalized by Months, Corrected up to Dec. 17, 1883, for 1874-1882.....	94, 95
Exhibit B,—Deaths, Months arranged in order by number of, in Michigan, Massachusetts, and Rhode Island.....	131
Exhibit C,—Births of Females by Months, Corrected and Equalized to Population.....	21
Exhibit C,—Persons Married 1876-1882, Average Age by Nativity.....	105
Exhibit C,—Deaths in 1882 as Returned, by Months, Corrected, Equalized, etc.....	123
Exhibit D,—Births, Deaths, and Excess of Births, by Parent-Nativity, for 1875-1881.....	7
Exhibit D,—Births by Months, and Sex, Corrected, Equalized, etc.....	22
Exhibit D,—Number Married to 1,000 Population, for Different Countries.....	124
Exhibit D,—Deaths in 1877-1882, by Months, Corrected for Omissions.....	133
Exhibit E,—Relation between Births in 1882 and Marriages in Months of their Conceptions.....	25
Exhibit E,—Births and Deaths, Returned, which Occurred out of Michigan.....	12
Exhibit E,—Deaths as Returned, Corrected, Equalized to Uniform Months.....	134
Exhibit F,—Births in 1875-1882, Number and Per Cent of, by Nativity of Parents.....	45
Exhibit F,—Deaths by Age, by Sex and Excess of the Sexes.....	136, 137
Exhibit G,—Deaths by Periods of Age, and by Months.....	139
Exhibit H,—Deaths, Delinquent Counties and Townships, with Population.....	159
Exhibit I,—Townships reported as having no Deaths in 1882, showing Population.....	160
Exhibit J,—Eleven Geographical Divisions of the State, Counties in Each.....	184
Exhibit K,—Deaths from Croup in 1882, and Coincident Meteorology.....	278
Exhibit L,—Croup and Diphtheria in 1882, and Coincident Meteorology.....	279
Exhibit M,—Deaths from Diphtheria in 1882, and Coincident Meteorology.....	282
Exhibit N,—Births as Returned, Equalized to Uniform Months.....	87
Exhibit N,—Consumption, by Months, Equalized to Uniform Length.....	298
Exhibit O,—Births as Returned, Equalized, and Excess of Males, by Months.....	87
Exhibit O,—Consumption, by Months, and Coincident Meteorology.....	301
Exhibit P,—Births, by Sex and by Months, Corrected, Equalized to Population, Equalized to Uniform Months.....	87
Exhibit P,—Deaths from Pneumonia, in 1882, and Coincident Meteorology.....	305
Exhibit Q,—Average Age of Decedents, and of Inhabitants.....	333, 334
Exhibit R,—Deaths in Michigan in 1882, Compiled as Casualty.....	259
Exhibit S,—Deaths from Cancer, Specifying Part of Body Affected.....	268
Exhibit T,—Fifteen Principal Causes of Death, for 1875-1882.....	264
Exhibit U,—Deaths from Congeative Chills, and Coincident Meteorology.....	287
Exhibit V,—Cerebro-spinal Meningitis, etc., for 1882.....	285
Exhibit W,—Deaths from Intermittent Fever, and Coincident Meteorology.....	289
Exhibit X,—Deaths from Typhoid Fever, and Coincident Meteorology.....	290
Exhibit Y,—Scarlet Fever, by Months, and Coincident Meteorology.....	295
Exhibit 1,—Births, Deaths, and Excess of Births over Deaths, by Months, 1877-1882.....	5
Exhibit 1.—Number and Proportion of Brides and Bridegrooms by Nativity.....	103
Exhibit 2,—Births in 1882, and Marriages and Deaths in Months of Conceptions.....	6
Exhibit 2.—Births, by Months, for 1878-1882, Corrected for Omissions, Number and Proportion of.....	18
Exhibit 2.—Marriages, by Ages, by Sex, and Excess of the Sexes.....	107
Exhibit 2.—Relation of Still-births to All Deaths, for 1874-1882.....	151
Exhibit 3.—Births, as Corrected for Omissions, Equalized to Uniform Months.....	23
Exhibit 3.—Children Born in 1881, Died in 1881-1882, Aged under One Year, by Months.....	154
Exhibit 4.—Months of Birth and of Death of Children Born in 1881, etc.....	156
Exhibit 5.—Twins, by Nativity and Color of Mother.....	56, 57
Exhibit 5.—Deaths Aged under One Month, by Sex.....	157
Exhibit 6.—Relation of Still-births to all.....	67



	PAGE.
Exhibit 6,—Number and Per Cent of Deaths, by Nativity, for 1874-1882.....	177
Exhibit 7,—Nativity and Color of Mothers of Still-born Children, 1875-1882.....	68
Exhibit 7,—Deaths, Number of, from each Class of Causes, by Months, 1882.....	181
Exhibit 8,—Illegitimate Children, Number and Proportion of, for the Years 1873-1882.....	73
Exhibit 8,—Five Groups of Causes of Deaths, 1875-1882.....	183
Exhibit 9,—Illegitimate Children, in 1875-1882, Nativity and Color of Mothers of.....	74
Exhibit 9,—Facts Concerning Deaths from Suicide in 1882.....	260-262
Exhibit 10,—Townships having no Births in 1882, Showing Population in 1880.....	79
Exhibit 10,—Average Temperature, by Months, for the Years 1873-1882.....	273
Exhibit 11,—Still-births, Occupations of Fathers of, 1882.....	69
Exhibit 11,—Absolute Humidity, by Months, for each of the Years 1873-1882.....	273
Exhibit 12,—Pressure of Atmosphere, by Months, for the Years 1873-1882.....	275
Exhibit 13,—Deaths from Diphtheria, by Counties, 1877-1882.....	283-285
Exhibit 14,—Deaths from All Causes, by Months, and Coincident Meteorology.....	277
Exhibit 15,—Cerebro-spinal Meningitis, and Coincident Meteorology.....	286
Exhibit 16,—Deaths from Diarrhea, by Months, and Coincident Meteorology.....	292
Exhibit 17,—Pneumonia, by Months, for 1873-1882, and Average for 10 Years ending with 1882.....	302
Exhibit 18,—Deaths from Rheumatism, and Coincident Meteorology.....	294

## F.

Fifteen Principal Causes of Death, 1875-1882.....	294
Fifteen Principal Causes of Death, in 1882, Number and Per Cent of Each to Total Deaths.....	263
Five Groups of Causes of Death, 1882.....	183
Foreign-born mothers of Illegitimate Children.....	74
France, Inhabitants to One Marriage in.....	124

## G.

General Remarks and Statements.....	vii.-viii.
Geographical Divisions of the State, by Classes, Deaths by, in 1882.....	185
Geographical Divisions, Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by.....	308, 309
Geographical Divisions, Deaths from Old Age, Aged 70 and Over, Under 5, etc., by.....	313, 314
Grand Haven, Marquette, Detroit, and Alpena, Mich., Meteorology at, in 1882.....	276
Great Disparity in Ages of Persons Married.....	118, 119

## H.

Heart, Throat, Brain, Lungs, and Bowels, Diseases of.....	183
Humidity of Atmosphere, by Months, for Different Years.....	273

## I.

Illegitimate Children, Annual Number, 1873-1882.....	72
Illegitimate Children.....	73-78
Illegitimate Children, by Months, and by Parent-Nativity.....	75
Illegitimate Children Born in 1882, and Per Cent of each Sex to Total.....	76
Illegitimate Children, Births of, by Counties.....	78
Infant Mortality.....	151-157
Inhabitants, and Decedents, Average Age of.....	333-334
Inhabitants to One Marriage, Annually, in Different Countries.....	124
Inhabitants in 1880, Represented by Births in 1882.....	35-43
Inhabitants in 1880, Represented by Deaths in 1882.....	126
Intermittent fever, Deaths from, in 1882.....	233-239
Intermittent Fever, Typhoid Fever, Diarrhea, Consumption, etc., by Geographical Divisions.....	308-309
Intermittent Fever, Typhoid Fever, Diarrhea, Pneumonia, Consumption, by Counties.....	310-312

## L.

Letter of Transmittal of this Volume by the Secretary of State.....	vii.-viii.
Local Diseases.....	181, 182, 185, 186
Lungs, Brain, Bowels, Throat, and Heart, Diseases of.....	183

## M.

Males to 100 Females among Births, by Counties.....	36-43
Males to 100 Females among Births, by Months, Equalized.....	87
Males to 100 Females among Deaths, by Months.....	129
Males to 100 Females among Deaths by Periods of Age.....	135
Males to 100 Females among Twins.....	64, 88

	PAGE.
Males to 100 Females, by Parent-Nativity, among Illegitimates.....	77
Marquette, Detroit, Alpena, Grand Haven, Meteorology at, in 1882.....	276
Marriages, Average Number per Quarter, Month, Week, and Day.....	86
Marriages, Births, and Deaths for Certain Periods of Time.....	4
Marriages, Births, Deaths, and Excess of Births Over Deaths, as Returned and as Corrected, 1877-1882.....	
Marriages, Births, and Deaths, in 1882, and Population in 1880, by Counties.....	8-11
Marriages, Births, and Deaths, Relations of.....	6
Marriages, Births, Deaths, Statements Concerning.....	2
Marriages by Counties, Corrected up to Dec. 17, 1883, for 1874-1882.....	120-123
Marriages by Counties and by Months.....	96-98
Marriages by Counties, by Color of Persons Married.....	100-102
Marriages by Age, showing the Excess of the Sexes.....	107
Marriages at Different Ages, in Periods of Years, by Counties.....	108-113
Marriages, Manner of Union by Ages.....	117
Marriages in Michigan in 1882.....	2, 4, 8-11, 89-124
Marriages in Months of Conceptions of Births.....	24, 25
Marriages by Months, Corrected and Equalized for the Years 1874-1882.....	94, 96
Marriages by Months, in Order of Greatest Number First, for 1874-1882.....	92, 93
Marriages by Periods of Age, by Sex, and Proportion of the Sexes.....	106
Marriages of Persons Under 21 Years of Age, by Counties.....	114-116
Marriages by Quarters of the Year.....	91
Marriages by Quarters of the Year, as Returned and as Corrected, for 1874-1882.....	90
Marriages with Great Disparity of Ages.....	118, 119
Massachusetts, Inhabitants to One Marriage in.....	124
Massachusetts, Mich., and Rhode Island, Months of Deaths in, in Order, Greatest No. First.....	131
Months, Deaths from, in 1882.....	244, 266-268
Meteorological Conditions and Deaths from Scarlet Fever.....	295
Meteorological Conditions and their Relations to Deaths.....	270-305
Meteorology and Consumption, by Months.....	301
Meteorology and Deaths from Pneumonia, by Months, for 1882.....	305
Meteorology at Detroit, Alpena, Grand Haven, and Marquette, Mich., in 1882.....	276
Meteorology, as Related to Deaths from Diarrhea.....	292
Michigan, Death-rate in.....	126
Michigan, Inhabitants to One Marriage in.....	124
Mich., Mass., and Rhode Island, Months of Deaths in, in Order, Greatest No. First.....	131
Months, Counties and Sex, Births by.....	26-33
Months of Greatest Danger to Life of Child Aged Under One Year.....	155
Months, Marriages by, by Counties.....	96-98
Months, Parent-Nativity and Sex, Still-births by.....	71
Months and Periods of Age, Deaths from Ten Specified Causes by.....	266-267
Month, Quarter, Week, Day, Average No. of Births per.....	14
Month, Quarter, Week, Day, Average No. of Deaths per.....	128
Months, Sex, and Age, Deaths by.....	142-151
Months, Week, Day, Quarter, Average Number of Marriages per.....	89
Mothers Bearing Still-born Children, Proportion of, by Nativity and Color.....	68
Mothers of Illegitimates in 1875-1882, by Nativity and Color.....	74

## N.

Nativity of Parents of Children Born, 1875-1882.....	45
Nativity of Parents of Children Born in 1882.....	46-53, 88
Nativity of Parents of Twins.....	55-65
Nativity and Color of Mothers having Still-births, 1875-1882.....	68
Nativity of Parents of Still-births.....	68, 70, 71
Nativity and Color of Mothers of Illegitimate Children.....	74
Nativity and Color of Mothers of Twins, for the Years 1875-1882.....	56, 67
Nativity of Parents of Illegitimate Children.....	74, 75
Nativity of Persons Married.....	103, 104, 108-113
Nativity, Deaths by, by Counties.....	178-180
Nativity, Deaths by, for the Years 1874-1882.....	177
Native and Foreign-born Inhabitants, Comparative Natural Increase of.....	7
Nativity, Sex, and Periods of Age of Persons Married, by Counties.....	108-113
Netherlands, Inhabitants to One Marriage in.....	124
Nosological Arrangement of Causes of Death, by Counties.....	186-215



	PAGE.
Number of Births in 1882.....	13
Number and Proportion of Births, by Months, as Corrected for the Years 1878-1882.....	18
Number and Proportion of Births, by Quarters, for the Years 1874-1882.....	15
Number of Persons Married in 1882, by Age, by Sex, and Excess of the Sexes.....	107
Number of Persons who Married those of another Color.....	99
Number of Inhabitants to One Marriage, by Counties.....	120-123
Number of Deaths in 1882.....	125

## O.

Occupations of Decedents Aged 20 and Over, Classified, Aggregate and Average Age, etc.....	335-342
Occupations of Decedents from Consumption, by Months, Sex, etc.....	318-333
Occupations of Fathers of Still-births, 1882.....	69
Old Age, Decedents Aged 70 and Over, and Under 5, by Counties.....	315-317
Old Age, Decedents Aged 70 and Over, Under 5, etc., by Geographical Divisions.....	313-314

## P.

Parent-Nativity, Births of, 1882.....	44-53, 88
Parent-Nativity of Twins Born in 1882.....	55-65, 88
Parent-Nativity, Counties and Sex, Births by.....	46-53
Parent-Nativity of Still-births, 1882.....	68, 70, 71
Parent-Nativity of Illegitimate Children.....	74, 75
Per Cent of Births to Population, by Counties.....	36-43
Per Cent of Births of each Sex to Total of Both Sexes.....	35-43
Per Cent of Births of Twins to All Mothers, 1875-1882.....	56-57
Per Cent of Deaths at Certain Periods of Age to Deaths at All Ages.....	135, 139
Per Cent of Deaths in 1882, as Returned, and as Corrected, to Inhabitants in 1880.....	126
Per Cent of Deaths in each Month to Total during Year.....	128
Per Cent of Deaths of each Sex to Total of Both Sexes, by Months and by Age.....	129, 135
Per Cent of Deaths of each Color to Total of All Colors, by Sex.....	173
Per Cent of Deaths by Geographical Divisions, by Causes Classified.....	185
Per Cent of Illegitimate Births to All Births, 1873-1882.....	73
Per Cent of Mothers of Still-births to All Mothers, 1875-1882.....	68
Per Cent of Marriages in each Quarter of the Year, for 1874-1882.....	90-91
Per Cent, Nativity, and Number of Brides and Bridegrooms.....	103
Per Cent of Persons Married at Corresponding Ages.....	106
Per Cent of Still-births to Total Deaths.....	151
Periods of Age, Deaths by, by Sex, and Proportion of the Sexes.....	135
Periods of Age, Months, Sex, Deaths by, by Counties.....	161-172
Periods of Age, Sex, Months, Deaths by.....	140, 141
Persons Married, by Color.....	99
Persons Married, by Counties, Nativity, Sex, and Periods of Age.....	108-113
Persons Married, in Michigan, by Age, by Sex, and Excess of the Sexes.....	107
Persons, Number of, who Married those of another Color.....	99
Persons Married Under 21 Years of Age, by Counties.....	114-116
Persons Married with Great Disparity of Ages.....	118, 119
Pneumonia and Consumption, Correlation of,.....	306, 307
Pneumonia, Consumption, Typhoid Fever, Diarrhea, etc., by Counties.....	310-312
Pneumonia, Deaths from, in 1882.....	191, 248, 263, 264, 302-306, 306-312
Pneumonia, Deaths from, by Months, for each of the Years 1873-1882.....	302
Pneumonia, Typhoid Fever, Consumption, Diarrhea, etc., by Geographical Divisions.....	308, 309
Population in 1880, and Births, Marriages, and Deaths in 1882, by Counties.....	8-11
Population in 1880, by Counties, Represented by Births in 1882.....	30-43
Population of Townships, not Represented by Births in 1882.....	80
Pressure of Atmosphere, by Months, for Different Years.....	275
Prussia, Inhabitants to One Marriage in.....	124

## Q.

Quarter, Month, Week, Day, Average Number of Births per.....	14
Quarter, Month, Week, Day, Average Number of Deaths per.....	126
Quarter, Month, Week, Day, Average Number of Marriages per.....	89

## R.

Relations of Deaths of Children to Births, by Months.....	157
Rheumatism, Deaths from, in 1882.....	188, 249, 250, 294
Rhode Island, Mass., and Mich., Months of Deaths in, in Order, Greatest Number first.....	131



S.	PAGE.
Scarlet Fever, Deaths from, in 1882.....	187, 250, 263-267, 295
Scarlet Fever, Most Prevalent during November, 1882.....	295
Secretary of State's Letter of Transmittal of this Volume to the Governor.....	vii.-viii.
Seven Groups of Causes of Death, 1882.....	183
Sex of Children.....	80
Small-pox in Michigan, Fourteen Years.....	269
Specified Causes of Deaths, by Months, Sex, and Ages, 1877-1882.....	216-258
Specified Causes of Death—Ten—by Months, and Periods of Age.....	266, 267
Specified Occupations of Decedents from Consumption.....	318-332
Still-born Children.....	67-71, 88
Still-births, Number and Proportion of, by Nativity and Color of Mothers, 1875-1882.....	68
Still-births, Occupations of Fathers of, 1882.....	69
Still-births, 1874-1882, Proportion of, to Total Births.....	67
Still-births, by Counties.....	78
Still-births, Relation of, to all Deaths.....	151
Suicide, Deaths from, in 1882.....	254, 260-262
Sweden, Inhabitants to one Marriage in.....	124
Switzerland, Inhabitants to one Marriage in.....	124

## T.

Table of Contents of this Volume.....	iii.-v.
Table I.,—Marriages, Births, Deaths, and Excess of Births over Deaths, by Periods of Time.....	4
Table I.,—Births by Quarters of the Year for each of the Years 1874-1882, as Returned, and as Corrected.....	15
Table I.,—Marriages by Quarters for each of the Years 1874-1882, by Number and Per Cent of,.....	90
Table I.,—Deaths by quarters of the Years 1874-1882.....	127
Table II.,—Births, Marriages, and Deaths in 1882, and Population in 1880, by Counties.....	8-11
Table II.,—Births, by Months, for each of the Years 1874-1882.....	16-17
Table II.,—Marriages by Months, in Order of Greatest Number first, for 1874-1882.....	92-93
Table II.,—Deaths by Months, in Order, Greatest Number first, for 1875-1882.....	128
Table III.,—Exhibiting the relation between Births in 1882, by Months, and Marriages in Months of their Conceptions.....	24
Table III.,—Marriages by Counties, by Months.....	96-98
Table III.,—Number and Per Cent. of Deaths, by Months, by Sex.....	129
Table IV.,—Births by Counties, by Months, by Sex.....	26-33
Table IV.,—Color and Sex of Persons Married.....	99
Table IV.,—Deaths by Periods of Age, Sex, and Proportion of the Sexes.....	135
Table V.,—Births by Color, by Sex, and Proportion of the Sexes.....	35
Table V.,—Marriages by Counties, by Color.....	100-102
Table V.,—Deaths by Periods of Age, by Sex, by Months.....	140-141
Table VI.,—Births by Counties, by Color, by Sex.....	36-43
Table VI.,—Nativity of Persons Married in 1882.....	104
Table VI.,—Deaths by Ages, by Sex, by Months.....	142-151
Table VII.,—Parent-Nativity of Births in 1882, by Sex, Number, and Proportion.....	44
Table VII.,—Marriages by Periods of Age, by Sex.....	106
Table VIII.,—Births by Counties, Parent-Nativity, and Sex.....	46-53
Table VIII.,—Marriages by Counties, Nativity, Sex, and Periods of Age.....	108-113
Table VIII.,—Deaths of Children Aged Under one Year, etc.,—Diagrammatic Table.....	153-155
Table IX.,—Twin Children, by Pairs and by Individuals, in Order by Months, Greatest first.....	54
Table IX.,—Marriages of Persons under 21 Years of Age, by Counties.....	114-116
Table IX.,—Deaths of Centenarians, Details Concerning.....	158
Table X.,—Births of Twins by Parent-Nativity, and by Sex.....	55
Table X.,—Marriages by Periods of Age, by Sex.....	117
Table X.,—Deaths by Counties, Months, Periods of Age, and Sex.....	161-172
Table XI.,—Parent-Nativity of Twins, by Sex, and Proportion of the Sexes.....	67
Table XI.,—Marriages with Great Disparity of Ages, by Counties.....	118-119
Table XI.,—Deaths by Color, by Sex, and Proportion of the Sexes.....	173
Table XII.,—Births of Twins by Parent-Nativity, Counties, Sex, etc.....	58-65
Table XII.,—Marriages 1874-1882, Corrected, by Counties.....	120-123
Table XII.,—Deaths by Counties, by Color, by Sex.....	174-176
Table XIII.,—Deaths by Counties, by Nativity, and Sex.....	178-180
Table XIV.,—Still-births by Months, by Parent-Nativity, and Sex.....	71
Table XIV.,—Deaths by Classes of Causes, Number and Per cent. of, 1877-1881.....	182
Table XV.,—Still-born Children, by Parent-Nativity, etc.....	70

	PAGE.
Table XV.,—Deaths by Geographical Divisions of the State, by Classes .....	185
Table XVI.,—Illegitimate Children by Months, Sex, and Parent-Nativity .....	75
Table XVI.,—Causes of Death—Nosological Arrangement, by Counties .....	185-215
Table XVII.,—Illegitimate Children by Color, by Sex, and Proportion of the Sexes .....	76
Table XVII.,—Specified Causes of Death .....	216-258
Table XVIII.,—Fifteen Principal Causes of Death in 1882 .....	263
Table XVIII.,—Illegitimate Children, Number and Proportion of, by Parent-Nativity .....	77
Table XIX.,—Details concerning Triplet children .....	66
Table XIX.,—Deaths from Ten Specified Causes .....	266
Table XX.,—Males to 100 Females among Twins, Illegitimates and Still-births, by Counties .....	78
Table XX.,—Per Cent of Ten Specified Causes of Death in 1882 .....	267
Table XXI.,—Townships from which no Returns of Births were Received, Showing Population of each in 1880 .....	80
Table XXI.,—Diarrhea and Dysentery, Deaths from, by Geographical Divisions .....	291
Table XXII.,—Relation of Conceptions, for Births in 1882 to proportion of each Sex .....	81
Table XXII.,—Correlation of Consumption and Pneumonia, by Months .....	306
Table XXIII.,—Conceptions for Births, Corrected, and proportion of the Sexes .....	82
Table XXIII.,—Correlation of Consumption and Pneumonia by Periods of Age .....	307
Table XXIV.,—Relation between Deaths and Conceptions as Returned, by Months, Equalized .....	83
Table XXIV.,—Consumption, Pneumonia, Typhoid Fever, etc., by Geographical Divisions .....	308-309
Table XXV.,—Relation between Deaths and Conceptions, as Corrected and Equalized .....	84
Table XXV.,—All Causes, Consumption, Pneumonia, Typhoid Fever, etc., by Counties .....	310-312
Table XXVI.,—Relation between Deaths as Corrected and proportion of Each Sex Conceived .....	85
Table XXVI.,—All Causes, Old Age, Aged 70 and Over, and Under 5 .....	313-314
Table XXVII.,—Relation of Deaths as Equalized, to Conceptions, and Proportion of Each Sex Conceived .....	86
Table XXVII.,—Old Age, Aged 70 and Over, Deaths at All Ages, etc., by Counties .....	315-317
Table XXVIII.,—Boys to 100 Girls among Total Births, Twins, Illegitimates, and Still births .....	88
Table XXVIII.,—Deaths from Consumption, by Occupation, Sex, Months, Periods of Age, etc. ....	318-322
Table XXIX.,—Occupations of Decedents Aged 20 and Over, Classified .....	335-342
Table XXX.,—Meteorology at Detroit, Alpena, Grand Haven, and Marquette, Mich. ....	276
Temperature, by Months, for each of the Years 1873-1882 .....	273
Ten Specified Causes of Death, Number and Per Cent of .....	266-267
The Relations of Births, Marriages, and Deaths .....	6
Throat, Heart, Bowels, Brain, and Lungs, Diseases of .....	183
Townships Reported as having no Births in 1882 .....	79
Townships from which no Returns of Births were Received in 1882 .....	80
Townships in which it was Reported that no Deaths Occurred in 1882 .....	160
Triplet Children born in 1882, details concerning .....	66
Twins Born in 1875-1882, by Nativity and Color of Mothers .....	56-57
Twin Children born in 1882 .....	54-65
Twin Children, Proportion of the Sexes .....	55, 78
Twins, Illegitimates, and Still-births, Boys to 100 Girls among .....	88
Twins, Males to 100 Females, in Order, by Months, Greatest first .....	54
Twins, Parent-Nativity of, by Counties .....	53-65
Twins, by Parent-Nativity, and Sex, Number and proportion of .....	55
Typhoid Fever, Deaths from, in 1882 .....	188, 233, 264-267, 290, 308-312
Typhoid Fever, Consumption, Pneumonia, Diarrhea, etc., by Geographical Divisions .....	308-309
Typhoid Fever, Diarrhea, Intermittent Fever, Consumption, etc., by Counties .....	310-312
<b>V.</b>	
Violent Deaths in Michigan .....	181, 182, 185, 186, 196, 206
<b>W.</b>	
Week, Day, Quarter, Month, Average No. of Births per .....	14
Week, Day, Quarter, Month, Average No. of Marriages per .....	89
Week, Day, Quarter, Month, Average No. of Deaths per .....	136
Whooping-cough, Deaths from, in 1882 .....	258, 266-269
<b>Z.</b>	
Zymotic Diseases, Deaths from, 1882 .....	181, 182, 185, 186, 196, 206

















